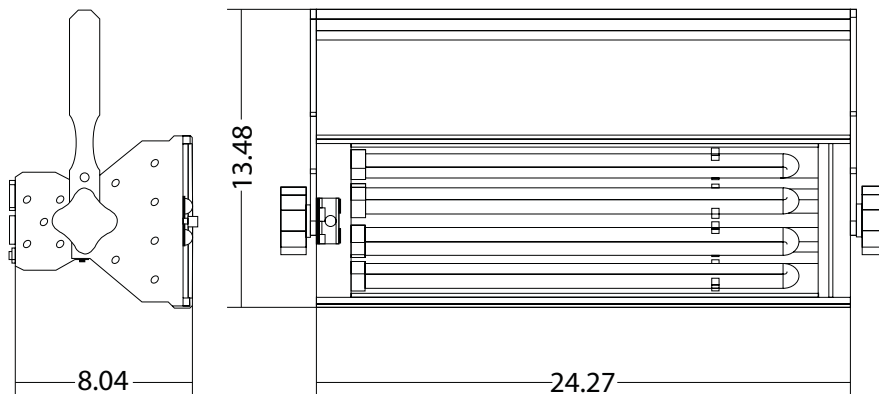
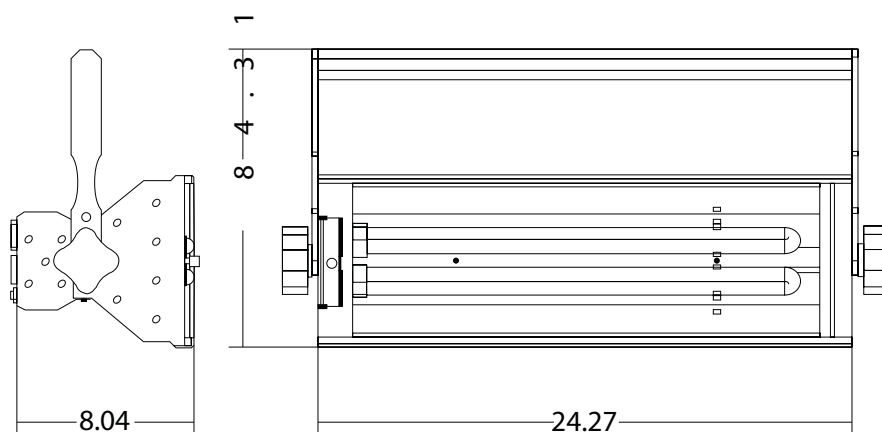




Photometrics

		Distance From Subject						
		3'-0"	6'-0"	9'-0"	12'-0"	15'-0"	18'-0"	21'-0"
		.915m	1.83m	2.74m	3.66m	4.57m	5.49m	6.40m
No Accessories								
Footcandles on center		441	125	63	39	28	21	17
Beam Spread: W x H		55"x50"	83"x98"	123"x138"	159"x178"	197"x199"	246"x279"	318"x288"
w/Broad Screen								
Footcandles on center		321	92	42	24	16	12	9
Beam Spread: W x H		36"x32"	62"x92"	90"x94"	124"x124"	156"x158"	184"x184"	218"x210"
w/Narrow Screen								
Footcandles on center		240	80	37.5	22	15	10.5	8
Beam Spread: W x H		22"x16"	38"x32"	54"x50"	70"x66"	88"x80"	106"x98"	122"x118"
w/Intensifier								
Footcandles on center		825	231	117	72	53	39	32
Beam Spread: W x H		66"x55"	77"x79"	93"x131"	120"x159"	159"x199"	175"x232"	221"x298"
w/Int. & Broad Screen								
Footcandles on center		589	188	87	51	34	24	18
Beam Spread: W x H		36"x28"	56"x50"	82"x74"	110"x96"	134"x114"	160"x148"	196"x172"
w/Int. & Narrow Screen								
Footcandles on center		479	170	81	47	31	22	16.5
Beam Spread: W x H		24"x16"	36"x28"	50"x42"	68"x54"	84"x66"	100"x82"	116"x92"

Footcandle measurements represent on-center readings taken using a Minolta T-1 Illuminance meter. Beam spread is determined by measuring from center out to 50% of peak in both the vertical and horizontal axes. This distance is then doubled to give the overall beam pattern.



Photometrics

Distance From Subject

	3'-0" .915m	6'-0" 1.83m	9'-0" 2.74m	12'-0" 3.66m	15'-0" 4.57m	18'-0" 5.49m	21'-0" 6.40m
No Accessories							
Footcandles on center	366	105	47	25	19	15	10
Beam Spread: W x H	52"x48"	80"x92"	121"x136"	155"x174"	193"x196"	250"x276"	311"x270"
w/Broad Screen							
Footcandles on center	239	82	37	22	15	10.5	8
Beam Spread: W x H	36"x22"	60"x54"	88"x82"	114"x104"	138"x132"	164"x162"	192"x186"
w/Narrow Screen							
Footcandles on center	223	73	35	20	15	9	6.5
Beam Spread: W x H	22"x19"	30"x36"	48"x52"	62"x68"	78"x90"	96"x104"	122"x126"
w/Intensifier							
Footcandles on center	503	152	70	41	27	20	15
Beam Spread: W x H	60"x52"	70"x76"	88"x128"	116"x154"	154"x192"	168"x226"	208"x262"
w/Int. & Broad Screen							
Footcandles on center	414	131	61	36	24	17	12.5
Beam Spread: W x H	32"x38"	56"x66"	80"x94"	102"x122"	126"x152"	154"x180"	184"x218"
w/Int. & Narrow Screen							
Footcandles on center	350	118	57	34	22	15.5	12
Beam Spread: W x H	24"x26"	36"x44"	50"x62"	64"x80"	78"x100"	92"x122"	104"x138"

Footcandle measurements represent on-center readings taken using a Minolta T-1 Illuminance meter. Beam spread is determined by measuring from center out to 50% of peak in both the vertical and horizontal axes. This distance is then doubled to give the overall beam pattern.

2-Lamp Studio Fixture

Housing: 14-gauge formed aluminum sheet metal construction. 24-gauge formed aluminum reflector. Low-gloss bronze finish is standard, with custom colors available. The ballasts can be serviced without removing the lamps or reflector.

Reflector: 24 gauge (.020) formed aluminum sheet metal construction. Polished spectral finish. 95% specular reflectance.

Electrical: A removable 12-ft [3.7-m] power cord with a NEMA 5-15P plug is standard; other plug types are available as options. The fixture is protected by an externally removable fuse, with an onboard spare.

Switch: On-board, rocker ON/OFF switch.

Lamps: (2) 55W/21T5/2G11RS 3000°K available with 10,000hour rated life; 3200° & 5600°K available with 8,000 hour rated life.

Ballasts: Ballasts are available for 120V, 230V, or 277V 50-60 Hz operation. Ballasts are high-frequency electronic with a power factor $\geq 97\%$; Class A sound rating, and a THD $< 20\%$. Dimmed fixtures may be controlled by a low-voltage (0 to +10VDC) analog source, by a line-voltage dimmer, by DALI digital, or by DMX-512. A converter is available to change DMX-512 to DALI to drive the digital fixtures.

Dimensions: S1.2 are 24.3 in [620 mm] wide x 7.8 in [200 mm] high x 9.1 in [230mm] deep. (With a horizontal yoke, the overall width of the fixture increases to 27.5 in [700 mm], which includes the palm handles.)

Weight: S1.2 fixtures range from 9 lb [4.1 kg] to 10 lb [4.5 kg], depending on ballast type.

Mounting: Fixture has a 10-gauge horizontal or vertical extruded aluminum yoke, with palm handles standard. Each fixture is supplied with a 2-in-OD C-clamp with an integral safety cable.

Accessories: A variety of accessories are available. Black finish on accessories is standard, with custom color available on request.

2-Lamp

Shipping Information
Length: 25 in (635 mm)
Width: 12 in (305 mm)
Height: 13 in (331 mm)
Weight: 25 lb (11.4 kg)



Rear of DMX Fixture (L to R) DMX Thru AC In, Address Selector, On/Off Switch, Power In & Thru



Rear of Phase Dimmed Fixture showing Power In & Thru and On/Off Switch; Non-Dim similar.



Rear of DALI Dimming Fixture showing Power In & Thru, On/Off Switch, and DALI Signal In & Thru.



Rear of Analog (Rotary Dim) Fixture showing Power In & Out, On/Off Switch, and Rotary Dial for Dimming.

S			
	Lamps	Control	Voltage
SeriesONE	1.4 = 4-Lamp Fixture	E = EcoSystem	1 = 120V
	1.2 = 2-Lamp Fixture	L = Hi-Lume	2 = 230V
	1.1 = 1-Lamp Fixture	N = Non-Dim	7 = 277V
		P = Phase	
		R = Rotary	
		X = Digital	

Digital Control
DMX = DMX Dimmable (2- and 4- lamp only)
DLI = DALI Dimmable
* Only use DMX or DLI when using a Digital "X" ballast *

Yoke
H = Horizontal
V = Vertical
C = Compact

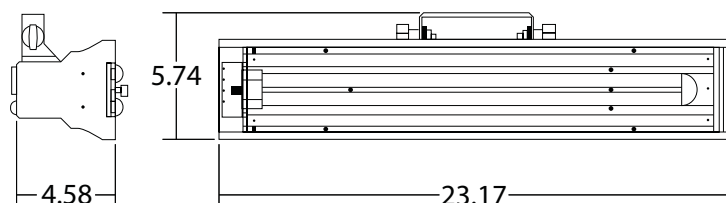
Note: EcoSystem Ballasts have a THD of 20%.

Note: Hi-Lume and Phase-Dim ballasts are not available in 230V.

Note: Custom Finish is available. Add a "-CF" to the end of the part number.

Note: Fixtures require Control Screens and Lamps; see Fixture Accessories and Lamps datasheet for options.

Note: Fixtures with Hi-Lume or any 277V ballast are provided with bare-lead connections for power.



Photometrics

		Distance From Subject			
		3'-0"	6'-0"	9'-0"	12'-0"
		.915m	1.83m	2.74m	3.66m
No Accessories					
	Footcandles on center	187	48	22	13
	Beam Spread: W x H	46"x36"	90"x76"	136"x114"	160"x148"
w/Broad Screen					
	Footcandles on center	121	35	15.5	9
	Beam Spread : W x H	30"x24"	56"x50"	82"x74"	114"x108"
w/Narrow Screen					
	Footcandles on center	89.5	30	14	8.5
	Beam Spread: W x H	18"x16"	26"x34"	42"x52"	58"x68"

Footcandle measurements represent on-center readings taken using a MinoltaT-I Illuminance meter. Beam spread is determined by measuring from center out to 50% of peak in both the vertical and horizontal axes. This distance is then doubled to give the overall beam pattern.

1-Lamp Studio Fixture

Housing: 14-gauge formed aluminum sheet metal construction. 24-gauge formed aluminum reflector. Low-gloss bronze finish is standard, with custom colors available. The ballasts can be serviced without removing the lamps or reflector.

Reflector: 24 gauge (.020) formed aluminum sheet metal construction. Polished spectral finish. 95% specular reflectance.

Electrical: A removable 12-ft [3.7-m] power cord with a NEMA 5-15P plug is standard; other plug types are available as options. The fixture is protected by an externally removable fuse, with an onboard spare.

Switch: On-board, rocker ON/OFF switch.

Lamps: (1) 55W/21T5/2G11RS 3000°K available with 10,000 hour rated life; 3200° & 5600°K available with 8,000 hour rated life.

Ballasts: Ballasts are available for 120V, 230V, or 277V 50-60 Hz operation. Ballasts are high-frequency electronic with a power factor $\geq 97\%$; Class A sound rating, and a THD $< 20\%$. Dimmed fixtures may be controlled by a low-voltage (0 to +10VDC) analog source, by a line-voltage dimmer, or by DALI digital. A converter is available to change DMX-512 to DALI to drive the digital fixtures.

Dimensions: S1.1 are 23.1 in [588 mm] wide x 4.6 in [116 mm] high x 5.7 in [146 mm] deep.

Weight: S1.1 fixtures weighs 4 lb [1.8 kg].

Mounting: Fixture has a 10-gauge universal aluminum yoke, with palm handles standard. Each fixture is supplied with a 2-in-OD C-clamp with an integral safety cable.

Accessories: A variety of accessories are available. Black finish on accessories is standard, with custom color available on request.

1-Lamp

Shipping Information
Length: 12 in (305 mm)
Width: 9 in (229 mm)
Height: 9 in (229 mm)
Weight: 15 lb (6.8 kg)



SeriesONE 1-lamp fixture; shown with vertical yoke configuration



Rear of Phase Dimmed Fixture showing Power In & Thru and On/Off Switch; Non-Dim similar.

S							
	Lamps	Control	Voltage		Digital Control		Yoke
SeriesONE	1.4 = 4-Lamp Fixture	E = EcoSystem	1 = 120V		DMX = DMX Dimmable (2- and 4- lamp only)		H = Horizontal
	1.2 = 2-Lamp Fixture	L = Hi-Lume	2 = 230V		DLI = DALI Dimmable		V = Vertical
	1.1 = 1-Lamp Fixture	N = Non-Dim	7 = 277V				C = Compact
		P = Phase					
		R = Rotary					
		X = Digital					

Note: EcoSystem Ballasts have a THD of 20%.

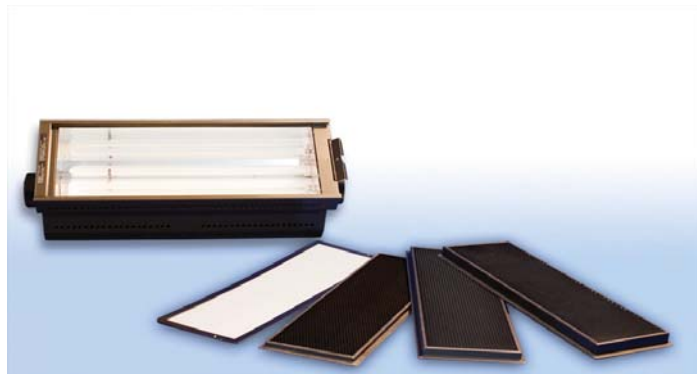
Note: Hi-Lume and Phase-Dim ballasts are not available in 230V.

Note: Custom Finish is available. Add a "-CF" to the end of the part number.

Note: Fixtures require Control Screens and Lamps; see Fixture Accessories and Lamps datasheet for options.

Note: Fixtures with Hi-Lume or any 277V ballast are provided with bare-lead connections for power.

* Only use DMX or DLI when using a Digital "X" ballast *



SeriesONE Fixture Screens & Gel Frame

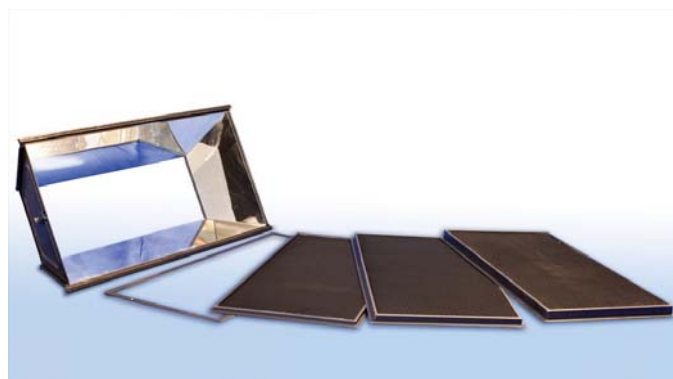
Accessories (for 2- and 4-lamp fixtures)

Part No.	Description
FIX-1/CS-BF	Fixture Broad-Field Screen
FIX-1/CS-MF	Fixture Medium-Field Screen
FIX-1/CS-NF	Fixture Narrow-Field Screen
SN-1	Snoot for S1.2 & S1.4 Fixtures
INT-1	Intensifier
INT-1/CS-BF	Intensifier Broad-Field Screen
INT-1/CS-MF	Intensifier Medium-Field Screen
INT-1/CS-NF	Intensifier Narrow-Field Screen
GF-1	Fixture Gel Frame
GF-INT	Intensifier Gel Frame
005-109-P	Vertical-Yoke Retrofit Kit
016-100-P	TVMP Adapter with Yoke Notch
016-110-P	TVMP Adapter without Yoke Notch
4C-D/DMX-L-BX	DMX-to-Digital Converter 120V
4C-D/DMX-L-BX-E	DMX-to-Digital Converter 230V

For 1-lamp fixtures, replace the "-1" with "-1.1" for fixture screens & gel frames.
 Snoots, Intensifiers and Intensifier Screens are only available for 2- & 4-lamp fixtures.
 Contact Brightline for other available accessories.



Profile of SeriesONE Fixture with Double Accessory Track



SeriesONE Fixture Screens & Gel Frame

Lamps

Part No.	Description
Standard	
009-55W30K82	55W Lamp, 3000K, 82 CRI, 10,000 hr
009-55W30K96	55W Lamp, 3000K, 96 CRI, 10,000 hr
009-55W35K82	55W Lamp, 3500K, 82 CRI, 10,000 hr
009-55W41K82	55W Lamp, 4100K, 82 CRI, 10,000 hr
Studioline	
009-55W32KSP	55W Lamp, 3200K, 85 CRI, 8,000 hr
009-55W56KSP	55W Lamp, 5600K, 85 CRI, 8,000 hr
High Rendering	
009-55W32KHR	55W Lamp, 3200K, 95 CRI, 8,000 hr
009-55W56KHR	55W Lamp, 5600K, 95 CRI, 8,000 hr





4-Channel DMX-Controlled Dimmer Pack (4x1200W DIM PACK)

Features

- Four channels at 1,200 watts per channel; total power: 4,800 watts. Each channel is fused at 10 amps. Output is two Edison plugs per channel standard.
- Power requirements: 120VAC, 50-60 Hz, 2 - 20A circuits. Two Edison plugs standard.
- Controlled by DMX-512 via Dual 5-pin XLR receptacles. The DMX unit address is set via dipswitches.
- May be used to dim incandescent loads. Can also operate in on/off (non-dim) mode.
- Unit can be grid mounted with optional C-clamps and is perfect for tight spaces
- Size: 9.5 x 8 x 3.4 in (24 cm x 20 cm x 9 cm). Weight: 6.7 lb (3 kg).

SK1.1N1-3

Case dimensions: 31" (w) x 17" (d) x 12" (h)

Notes:

1. Fixtures and accessories not shown.
2. Part number for 230VAC version: SK1.1N2-3
3. Part number for 120VAC Phase Dim version: SK1.1P1-3



Specifications

Case

Soft, lightweight case constructed of heavy-duty black nylon. Padded interior with movable dividers allows for multiple interior configurations. Part number: SC-1. Retractable handle and casters are removable and allow for pull-behind transporting. Part number: SC-1/R

Fixture

(3) S1.1N, 1-lamp 55-watt non-dim 120VAC (230VAC version also available)

Accessories

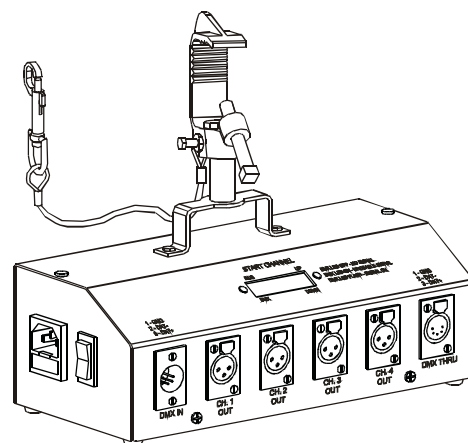
Qty.	Model	Description
2	FIX-1.1/CS-BF	Fixture mounted control screen for 1.1 - Broad field
1	FIX-1.1/CS-NF	Fixture mounted control screen for 1.1 - Narrow field
2	GF-1.1	Gel Frame for 1.1
3	023-138	12-in power cord
3	016-110-P	Spud
3	009-55W32KSP	55W Studioline 3200K 85 CRI*
3	009-55W56KSP	55W Studioline 5600K 85 CRI*

Stacker stands, triple riser with 7' 0" maximum height

**Other color temperatures available - please call factory
Specifications subject to change without notice.*

The DMX to DALI Protocol Converter is intended to dim DALI (Digital Addressable Lighting Interface) fluorescent ballasts from a source of DMX-512. In addition, it has a Manual Mode which allows the ballasts to be intensity controlled without a DMX signal source. It is intended for use with **brightline** SeriesONE DALI fluorescent fixtures.

- Each Converter has four (4) individually controllable opto-isolated DALI ballast output channels. Each output channel is capable of driving up to six (6) individual ballasts. Each channel output is connected to a female XLR-3 type connector.
- The DMX Start Address can be set to values of 1 to 512. Four consecutive DMX Addresses shall be read. Address selection is made by a pair of Up-Down recessed push-button switches. As the switches are recessed, they are not susceptible to being inadvertently altered.
- DMX Input and Output connectors (type XLR-5) are provided. The DMX Output is self-terminating; it is not necessary to set a termination switch for the last unit in a DMX signal run. All connectors securely lock in place.
- For testing purposes, it is possible to dim the connected fixtures without the presence of a DMX control signal (Manual Mode). Levels on all four channels can be set from 1% to full intensity. It is not necessary to disconnect the Converter from the DMX signal source to perform this function.
- An LED shows the status of the incoming DMX signal. It indicates whether the signal is missing, if there is an error in the signal, or if it is OK. Another LED indicates whether the Converter is in Run or Manual Mode.
- The Protocol Converter is available in 120VAC 60 Hz. or 230VAC 50 Hz. It has a removable 12' [3.6m] power cord with a parallel-blade U-ground plug; and an Off/On switch. An externally accessible fuse protects the unit.
- The unit is housed in a rugged aluminum enclosure with rubber feet. An entertainment lighting c-clamp with integral safety cable that mounts on a removable bracket is provided so the unit may be pipe-grid mounted. The overall dimensions of the unit are 10 x 4.4 in deep [25.4 x 11.1 cm], exclusive of connectors. The height of the unit is 3.5 in [8.9 cm], exclusive of the c-clamp and bracket assembly.



Part Numbers

☐ 4C-D/DMX-L-BX	DMX-DALI Converter, 120VAC, 3 Pin XLR Out
☐ 4C-D/DMX-L-BX-E	DMX-DALI Converter, 230VAC, 3 Pin XLR Out
☐ MTX-__	DMX Control Cable (__ = length in feet)
☐ ATX-__	DALI Control Cable (__ = length in feet), 3 Pin XLR
☐ 023-107-P	12-in [3.5-m] Power Cord, Stage Pin Connector
☐ 023-108-P	12-in [3.5-m] Power Cord, 20A Twist Lock Connector

*Other accessories available; contact the **brightline** factory*

Construction

Fixture housing is made of formed, cold-rolled sheet steel. Dome-shaped interior fixture housing. Perforated filler panels are optional.

Fixture Body Finish

Low-gloss, off-white finish (Tiger Drylac #44911704) is standard, with custom colors available.

Fixture Carriage and Reflector

Two sizes of lamp carriages are available, housing one or two 55-W lamps. Reflectors are of formed-aluminum specular-sheet-metal construction, featuring 95% reflectance. Direct/indirect task lights are available to provide for soft, glare-free room illumination. Wall Washer housing (one lamp) provided with reflective white finish.

Ballast

Ballasts are available in switched or in a variety of dimmable configurations. All ballasts are high-frequency electronic, with a Power Factor > .97, THD < 10%, and a Class A sound rating. Ballasts are housed in the fixture housing. Power and control inputs are from the side.

Lamps

All Brightline fixtures use 55-W compact fluorescent lamps, available in a variety of color temperatures and CRI ratings (see the Fixture Accessories and Lamps datasheet for details). Studioline and Cinema Series lamps are optimized specifically for video camera applications.

Shipping Information
Length: 26 in (660 mm)
Width: 16.5 in (419 mm)
Height: 12 in (305 mm)
Weight: 25 lb (11.3 kg)

Articulation

Rotate: Fixture carriage mounted on a sliding bracket allows for greater range of angular movement (+/- 50 degrees) on a single axis.

Drop-Pan-Tilt: Provides three axes of movement. DPT fixture carriages move up and down from the ceiling, revolve 360 degrees, and rotate angularly (+/- 70 degrees).

Motorized: Fixtures with motorized articulation are available in a configuration featuring a two-lamp carriage. Offers angular movement (+/- 50 degrees) on a single axis.

Accessories

A variety of control screens are available to shape the light-beam pattern (see the Fixture Accessory and Lamps datasheet for details). White-finish screens are standard, with black finish as an option. Prismatic lenses are available for one- and two-lamp carriages.

Fixture Dimensions

Inch Panel: 11.750 x 23.750 x 7.072 in
(298.45 x 603.25 x 179.62 mm)

Metric Panel: 298 x 595 x 179.62 mm
(11.71 x 23.43 x 7.072 in)

Fixture Weight: 20 lb (9.072 kg)

Electrical Certifications

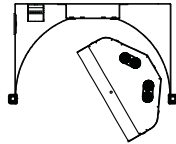
UL, cUL, CE, and C-Tick



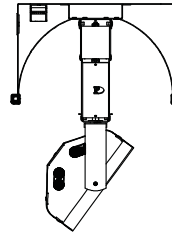
Fixture shown with Two-Lamp Rotate carriage.

US Patent No. 6,517,216. Other US and foreign patents pending.

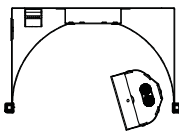
Sample Fixture Configurations



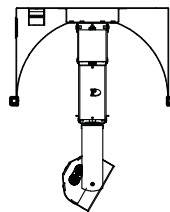
*Two-Lamp with maximum right slide;
includes contrast light.*



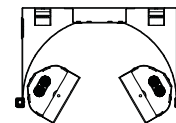
Two-Lamp Drop-Pan-Tilt
(shown in dropped position and tilted).



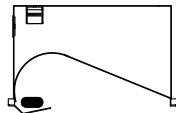
*One-Lamp Rotate with maximum right slide;
includes contrast light.*



*One-Lamp Drop-Pan-Tilt
(shown in dropped position and tilted).*



One-One-Lamp Rotate with maximum left and right slide; includes contrast light.



Wall Washer showing lamp and indirect reflector.



Task Light showing lamps and perforated diffusion screen.

T-Series				M-Series			
Lamp Carriage		Ballast Type	Voltage	Articulation	Panel Size	Panel Style	Mounting Style
T-Series	01= One 1-Lamp Carriage	E = EcoSystem L = Hi-Lume	1 = 120V	R = Rotate & Contrast D = Drop-Panel-Tilt M = Motorized Rotate	I = Inch Panel	S = Solid Panel	MM = Mini T
	11= Two 1-Lamp Carriages	N = Non-Dim	2 = 230V		M = Metric Panel	P = Perforated Panel	CM = Center-Mount
	02= One 2-Lamp Carriage	P = Phase X = DALI	7 = 277V				OM = Offset Mount
	OR			OR			45 = 45-Degree Mount
	00= No Lamp Carriage			T = Task W = Wall Wash			

Note: EcoSystem Ballasts have a THD of 20%.

Note: Hi-Lume and Phase-Dim ballasts are not available in 230V.

Note: Custom Finish is available. Add a "-CF" to the end of the part number.

Note: Fixtures require Control Screens and Lamps; see Fixture Accessories and Lamps datasheet for options.

Diagonal-Mount Videoconference Fixture

Construction

Fixture housing is made of formed, cold-rolled sheet steel. Dome-shaped interior fixture housing. Perforated filler panels are optional.

Fixture Body Finish

Low-gloss, off-white finish (Tiger Drylac #44911704) is standard, with custom colors available.

Fixture Carriage and Reflector

Two sizes of lamp carriages are available, housing one or two 55-W lamps. Reflectors are of formed-aluminum specular-sheet-metal construction, featuring 95% reflectance. Direct/indirect task lights are available to provide for soft, glare-free room illumination. Wall Washer housing (one lamp) provided with reflective white finish.

Ballast

Ballasts are available in switched or in a variety of dimmable configurations. All ballasts are high-frequency electronic, with a Power Factor > .97, THD < 10%, and a Class A sound rating. Ballasts are housed in the fixture housing. Power and control inputs are from the side.

Lamps

All Brightline fixtures use 55-W compact fluorescent lamps, available in a variety of color temperatures and CRI ratings (see the Fixture Accessories and Lamps datasheet for details). Studioline and Cinema Series lamps are optimized specifically for video camera applications.

Articulation

Rotate: Fixture carriage mounted on a sliding bracket allows for greater range of angular movement (+/- 50 degrees) on a single axis.

Drop-Pan-Tilt: Provides three axes of movement. DPT fixture carriages move up and down from the ceiling, revolve 360 degrees, and rotate angularly (+/- 70 degrees).

Motorized: Fixtures with motorized articulation are available in a configuration featuring a two-lamp carriage. Offers angular movement (+/- 50 degrees) on a single axis.

Accessories

A variety of control screens are available to shape the light-beam pattern (see the Fixture Accessory and Lamps datasheet for details). White-finish screens are standard, with black finish as an option. Prismatic lenses are available for one- and two-lamp carriages.

Fixture Dimensions

Inch Panel: 23.750 x 23.750 x 7.072 in
(603.25 x 603.25 x 179.62 mm)
Metric Panel: 595 x 595 x 179.62 mm
(23.43 x 23.43 x 7.072 in)
Fixture Weight: 22 lb (10 kg)

Electrical Certifications

UL, cUL, CE, and C-Tick

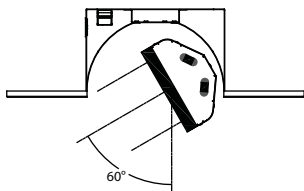
Shipping Information
Length: 28 in (711 mm)
Width: 25.5 in (648 mm)
Height: 14.5 in (368 mm)
Weight: 35 lb (15.9 kg)



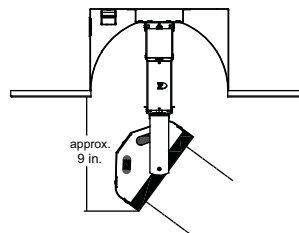
Fixture shown with Two-Lamp Rotate carriage.

US Patent No. 6,517,216. Other US and foreign patents pending.

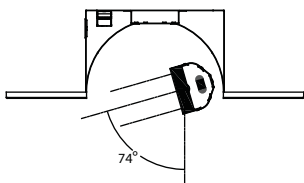
Sample Fixture Configurations



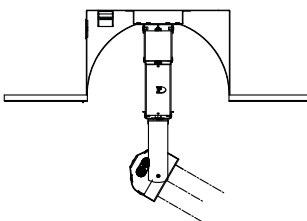
*Two-Lamp with maximum right slide;
includes contrast light.*



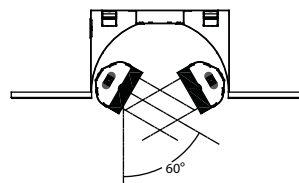
*Two-Lamp Drop-Pan-Tilt
(shown in dropped position and tilted).*



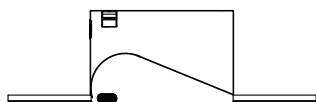
*One-Lamp Rotate with maximum right slide;
includes contrast light.*



*One-Lamp Drop-Pan-Tilt
(shown in dropped position and tilted).*



*One-One-Lamp Rotate with maximum left and
right slide; includes contrast light.*



Wall Washer showing lamp and indirect reflector.



*Task Light showing lamps and perforated
diffusion screen.*

T-Series									4	5
	Lamp Carriage		Ballast Type	Voltage		Articulation		Panel Size	Panel Style	Mounting Style
	01= One 1-Lamp Carriage		E = EcoSystem	1 = 120V		R = Rotate & Contrast		I = Inch Panel	S = Solid Panel	MM = Mini T
	11= Two 1-Lamp Carriages		L = Hi-Lume	2 = 230V		D = Drop-Pan-Tilt		M = Metric Panel	P = Perforated Panel	CM = Center-Mount
	02= One 2-Lamp Carriage		N = Non-Dim	7 = 277V		M = Motorized Rotate				OM = Offset Mount
			P = Phase							45 = 45-Degree Mount
	OR		X = DALI			OR				
	00= No Lamp Carriage					T = Task				
						W = Wall Wash				

Note: EcoSystem Ballasts have a THD of 20%.

Note: Hi-Lume and Phase-Dim ballasts are not available in 230V.

Note: Custom Finish is available. Add a "-CF" to the end of the part number.

Note: Fixtures require Control Screens and Lamps; see Fixture Accessories and Lamps datasheet for options.

Center-Mount Videoconference Fixture

Construction

Fixture housing is made of formed, cold-rolled sheet steel. Dome-shaped interior fixture housing. Perforated filler panels are optional.

Fixture Body Finish

Low-gloss, off-white finish (Tiger Drylac #44911704) is standard, with custom colors available.

Fixture Carriage and Reflector

Two sizes of lamp carriages are available, housing one or two 55-W lamps. Reflectors are of formed-aluminum specular-sheet-metal construction, featuring 95% reflectance. Direct/indirect task lights are available to provide for soft, glare-free room illumination. Wall Washer housing (one lamp) provided with reflective white finish.

Ballast

Ballasts are available in switched or in a variety of dimmable configurations. All ballasts are high-frequency electronic, with a Power Factor > .97, THD < 10%, and a Class A sound rating. Ballasts are housed in the fixture housing. Power and control inputs are from the side.

Lamps

All Brightline fixtures use 55-W compact fluorescent lamps, available in a variety of color temperatures and CRI ratings (see the Fixture Accessories and Lamps datasheet for details). Studioline and Cinema Series lamps are optimized specifically for video camera applications.

Articulation

Rotate: Fixture carriage mounted on a sliding bracket allows for greater range of angular movement (+/- 50 degrees) on a single axis.

Drop-Pan-Tilt: Provides three axes of movement. DPT fixture carriages move up and down from the ceiling, revolve 360 degrees, and rotate angularly (+/- 70 degrees).

Motorized: Fixtures with motorized articulation are available in a configuration featuring a two-lamp carriage. Offers angular movement (+/- 50 degrees) on a single axis.

Accessories

A variety of control screens are available to shape the light-beam pattern (see the Fixture Accessory and Lamps datasheet for details). White-finish screens are standard, with black finish as an option. Prismatic lenses are available for one- and two-lamp carriages.

Fixture Dimensions

Inch Panel: 23.750 x 23.750 x 7.072 in
(603.25 x 603.25 x 179.62 mm)

Metric Panel: 595 x 595 x 179.62 mm
(23.43 x 23.43 x 7.072 in)

Fixture Weight: 22 lb (10 kg)

Electrical Certifications

UL, cUL, CE, and C-Tick

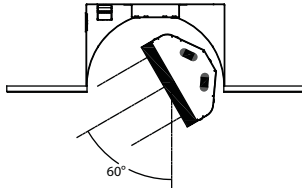
Shipping Information
Length: 28 in (711 mm)
Width: 25.5 in (648 mm)
Height: 14.5 in (368 mm)
Weight: 35 lb (15.9 kg)



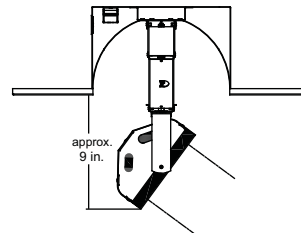
Fixture shown with Two-Lamp Rotate carriage.

US Patent No. 6,517,216. Other US and foreign patents pending.

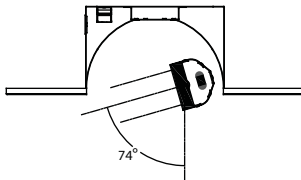
Sample Fixture Configurations



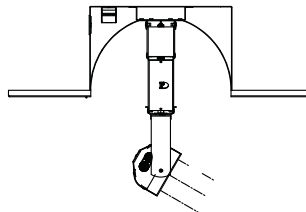
Two-Lamp with maximum right slide;
includes contrast light.



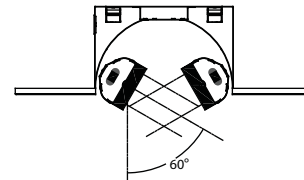
Two-Lamp Drop-Pan-Tilt
(shown in dropped position and tilted).



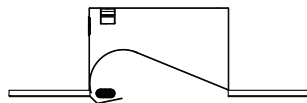
One-Lamp Rotate with maximum right slide;
includes contrast light.



One-Lamp Drop-Pan-Tilt
(shown in dropped position and tilted).



One-One-Lamp Rotate with maximum left and
right slide; includes contrast light.



Wall Washer showing lamp and indirect reflector.



Task Light showing lamps and perforated
diffusion screen.

T										C	M
	Lamp Carriage		Ballast Type	Voltage		Articulation		Panel Size	Panel Style	Mounting Style	
T-Series	01= One 1-Lamp Carriage	E = EcoSystem	1 = 120V		R = Rotate & Contrast	I = Inch Panel	S = Solid Panel	MM = Mini T			
	11= Two 1-Lamp Carriages	L = Hi-Lume	2 = 230V		D = Drop-Pan-Tilt	M = Metric Panel	P = Perforated Panel	CM = Center-Mount			
	02= One 2-Lamp Carriage	N = Non-Dim	7 = 277V		M = Motorized Rotate			OM = Offset Mount			
	OR	P = Phase			OR			45 = 45-Degree Mount			
	00= No Lamp Carriage	X = DALI			T = Task						
					W = Wall Wash						

Note: EcoSystem Ballasts have a THD of 20%.

Note: Hi-Lume and Phase-Dim ballasts are not available in 230V.

Note: Custom Finish is available. Add a "-CF" to the end of the part number.

Note: Fixtures require Control Screens and Lamps; see Fixture Accessories and Lamps datasheet for options.

Offset-Mount Videoconference Fixture

Construction

Fixture housing is made of formed, cold-rolled sheet steel. Dome-shaped interior fixture housing. Perforated filler panels are optional.

Fixture Body Finish

Low-gloss, off-white finish (Tiger Drylac #44911704) is standard, with custom colors available.

Fixture Carriage and Reflector

Two sizes of lamp carriages are available, housing one or two 55-W lamps. Reflectors are of formed-aluminum specular-sheet-metal construction, featuring 95% reflectance. Direct/indirect task lights are available to provide for soft, glare-free room illumination. Wall Washer housing (one lamp) provided with reflective white finish.

Ballast

Ballasts are available in switched or in a variety of dimmable configurations. All ballasts are high-frequency electronic, with a Power Factor > .97, THD < 10%, and a Class A sound rating. Ballasts are housed in the fixture housing. Power and control inputs are from the side.

Lamps

All Brightline fixtures use 55-W compact fluorescent lamps, available in a variety of color temperatures and CRI ratings (see the Fixture Accessories and Lamps datasheet for details). Studioline and Cinema Series lamps are optimized specifically for video camera applications.

Articulation

Rotate: Fixture carriage mounted on a sliding bracket allows for greater range of angular movement (+/- 50 degrees) on a single axis.

Drop-Pan-Tilt: Provides three axes of movement. DPT fixture carriages move up and down from the ceiling, revolve 360 degrees, and rotate angularly (+/- 70 degrees).

Motorized: Fixtures with motorized articulation are available in a configuration featuring a two-lamp carriage. Offers angular movement (+/- 50 degrees) on a single axis.

Accessories

A variety of control screens are available to shape the light-beam pattern (see the Fixture Accessory and Lamps datasheet for details). White-finish screens are standard, with black finish as an option. Prismatic lenses are available for one- and two-lamp carriages.

Fixture Dimensions

Inch Panel: 23.750 x 23.750 x 7.072 in
(603.25 x 603.25 x 179.62 mm)

Metric Panel: 595 x 595 x 179.62 mm
(23.43 x 23.43 x 7.072 in)

Fixture Weight: 22 lb (10 kg)

Electrical Certifications

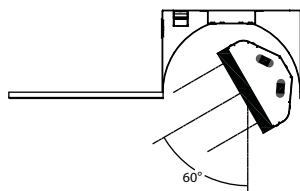
UL, cUL, CE, and C-Tick

Shipping Information
Length: 28 in (711 mm)
Width: 25.5 in (648 mm)
Height: 14.5 in (368 mm)
Weight: 35 lb (15.9 kg)



Fixture shown with Two-Lamp Rotate carriage.

US Patent No. 6,517,216. Other US and foreign patents pending.



A technical diagram showing a cross-section of a pipe end. The pipe has a horizontal flange on the left. The end of the pipe is beveled at an angle of 74 degrees, indicated by an arc and the label '74°'. The bevel is shown as a shaded area on the right side of the pipe end.

Technical drawing of a vertical support structure for a roof edge. It shows a vertical post with a base plate and a horizontal beam. The post is labeled with 'D' and 'E'.

A diagram showing a corner of a room. A horizontal line extends to the left from a vertical line. A curved line starts from the horizontal line and arcs upwards and to the right, meeting the vertical line. A small black oval is positioned at the intersection of the horizontal and vertical lines.

Task Light showing lamps and perforated diffusion screen.

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Note: Fixtures require Control Screens and Lamps; see Fixture Accessories and Lamps datasheet for options.

Double-Dome-Mount Videoconference Fixture

Construction

Fixture housing is made of formed, cold-rolled sheet steel. Dome-shaped interior fixture housing. Perforated filler panels are optional.

Fixture Body Finish

Low-gloss, off-white finish (Tiger Drylac #44911704) is standard, with custom colors available.

Fixture Carriage and Reflector

Two sizes of lamp carriages are available, housing one or two 55-W lamps. Reflectors are of formed-aluminum specular-sheet-metal construction, featuring 95% reflectance. Direct/indirect task lights are available to provide for soft, glare-free room illumination. Wall Washer housing (one lamp) provided with reflective white finish.

Ballast

Ballasts are available in switched or in a variety of dimmable configurations. All ballasts are high-frequency electronic, with a Power Factor > .97, THD < 10%, and a Class A sound rating. Ballasts are housed in the fixture housing. Power and control inputs are from the side.

Lamps

All Brightline fixtures use 55-W compact fluorescent lamps, available in a variety of color temperatures and CRI ratings (see the Fixture Accessories and Lamps datasheet for details). Studioline and Cinema Series lamps are optimized specifically for video camera applications.

Shipping Information
Length: 28 in (711 mm)
Width: 25.5 in (648 mm)
Height: 14.5 in (368 mm)
Weight: 60 lb (27.2 kg)

Articulation

Rotate: Fixture carriage mounted on a sliding bracket allows for greater range of angular movement (+/- 50 degrees) on a single axis.

Drop-Pan-Tilt: Provides three axes of movement. DPT fixture carriages move up and down from the ceiling, revolve 360 degrees, and rotate angularly (+/- 70 degrees).

Motorized: Fixtures with motorized articulation are available in a configuration featuring a two-lamp carriage. Offers angular movement (+/- 50 degrees) on a single axis.

Accessories

A variety of control screens are available to shape the light-beam pattern (see the Fixture Accessory and Lamps datasheet for details). White-finish screens are standard, with black finish as an option. Prismatic lenses are available for one- and two-lamp carriages.

Fixture Dimensions

Inch Panel: 23.750 x 23.750 x 7.072 in
(603.25 x 603.25 x 179.62 mm)

Metric Panel: 595 x 595 x 179.62 mm
(23.43 x 23.43 x 7.072 in)

Fixture Weight: 22 lb (10 kg)

Electrical Certifications

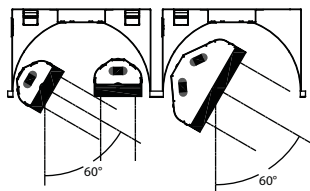
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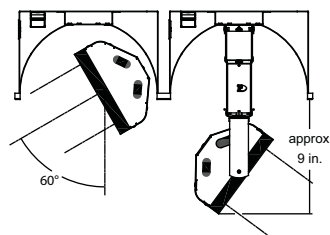
Fixture shown with One-Lamp Rotate and Two-Lamp Drop carriage.

US Patent No. 6,517,216. Other US and foreign patents pending.

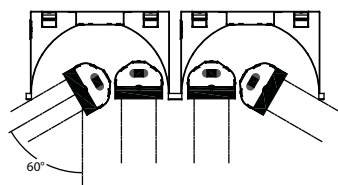
Sample Fixture Configurations



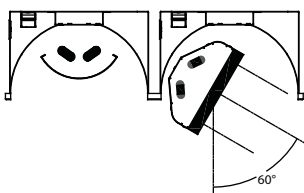
One-One-Lamp Rotate with left slide and
Two-Lamp Rotate with maximum left slide
(includes contrast light).



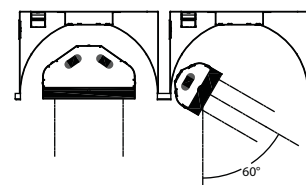
Two-Lamp Rotate with maximum right slide and
with contrast light, and Two-Lamp Drop-Pan-Tilt
(shown in dropped position and tilted).



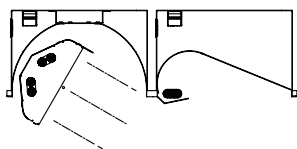
Two One-One Rotate with slide to achieve
maximum outward rotation
(includes contrast light).



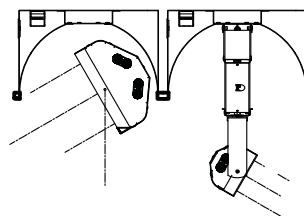
Two-Lamp Rotate with maximum left slide
and Task Light showing perforated diffusion screen.



Two-Lamp Rotate in centered position and
One-Lamp Rotate with maximum left
(includes contrast light).



Wall Washer showing lamp and indirect reflector and
Two-Lamp Rotate with maximum left slide
(includes contrast light).



Two-Lamp Rotate with maximum right slide and
with contrast light, and One-Lamp Drop-Pan-Tilt
(shown in dropped position and tilted).

T						
T-Series	Lamp Carriage	Lamp Carriage	Ballast Type	Voltage		
	01= One 1-Lamp Carriage	01= One 1-Lamp Carriage	E = EcoSystem	1 = 120V		
	11= Two 1-Lamp Carriages	11= Two 1-Lamp Carriages	L = Hi-Lume	2 = 230V		
	02= One 2-Lamp Carriage	02= One 2-Lamp Carriage	N = Non-Dim			
			P = Phase	7 = 277V		
			X = DALI			
	OR	OR				
	00= No Lamp Carriage	00= No Lamp Carriage				

Articulation	Articulation
R = Rotate & Contrast	R = Rotate & Contrast
D = Drop-Pan-Tilt	D = Drop-Pan-Tilt
M = Motorized Rotate	M = Motorized Rotate
OR	OR
T = Task	T = Task
W = Wall Wash	W = Wall Wash

		DD	DD
Panel Size	Panel Style	Mounting Style	
I = Inch Panel	S = Solid Panel	DD= Double Dome	
M = Metric Panel	P = Perforated Panel		

Note: EcoSystem Ballasts have a THD of 20%.

Note: Hi-Lume and Phase-Dim ballasts are not available in 230V.

Note: Custom Finish is available. Add a "-CF" to the end of the part number.

Note: Fixtures require Control Screens and Lamps; see Fixture Accessories and Lamps datasheet for options.

Construction

Die-formed, code-gauge, cold-rolled steel housing. Aluminum louvers. Fixture can be used in a 24-in or 600-mm lay-in grid ceiling or cut into drywall or plaster. Thin-flange grids may require a flange kit.

Fixture Body Finish

Fixture body is painted with high-gloss, electrostatically applied white enamel finish. Louver and louver frame are painted with matte white enamel.

Louver Frame

Die-cut, code-gauge, cold-rolled steel with four (4) pull-down spring latches. Louver frame can be removed from fixture without tools.

Lamping

All Brightline fixtures use 55-W compact fluorescent lamps, available in a variety of color temperatures (see the Fixture Accessories and Lamps datasheets for details). Studioline and Cinema Series lamps are optimized specifically for video camera applications.

Ballast

High-frequency electronic ballast with a power factor > 90%, THD of <20%, and a Class A sound rating. Non-dim ballast is standard; a variety of dimming ballasts are available. Fixtures can be provided for operation on 120VAC, 230VAC, or 277VAC, 50-60 Hz.

Louvers

Louvers are available for angled operation (approximately 45°) in one direction (FW and CA option) or bidirectionally (BL option). Louvers are also available for vertical downward-throw operation (DN option). Louvers are backed with a matte white lens.

Dimensions

The overall dimension of the fixture body (with the exception of the louver frame) is 23.4 x 23.4 x 4.8in (595 x 595 x 122 mm). The approximate weight of the fixture is 18 lb (8.2 kg).

Electrical Certifications

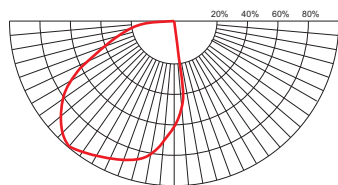
UL and cUL



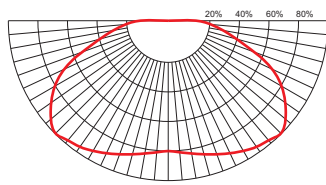
Fixture shown with Forward-Throw Louver.

Specifications subject to change without notice

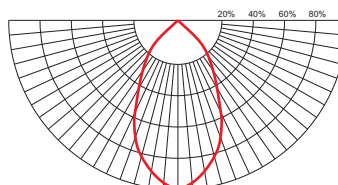
Polar Light Distribution:



Forward-Throw Louvers
FW and CA Options



Bidirectional-Throw Louvers
BI Option



Downward-Throw Louvers
DN Option

Shipping Information

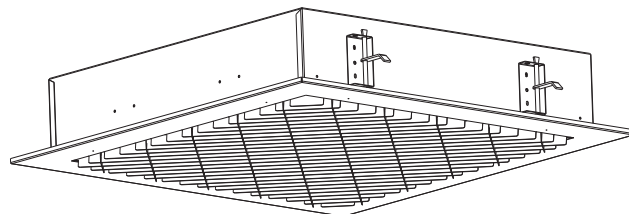
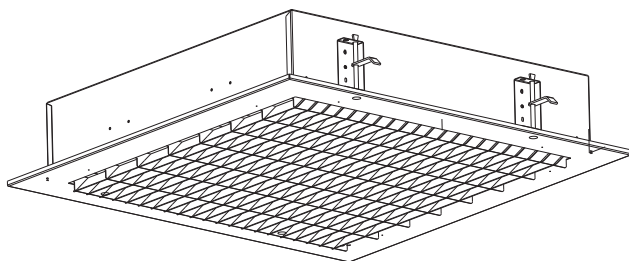
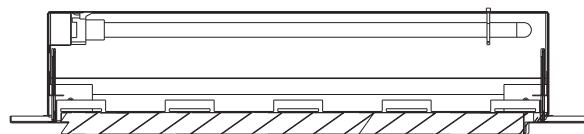
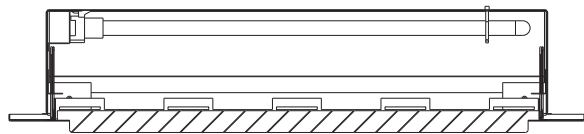
Length: 29 in (737 mm)

Width: 29 in (737 mm)

Height: 8 in (204 mm)

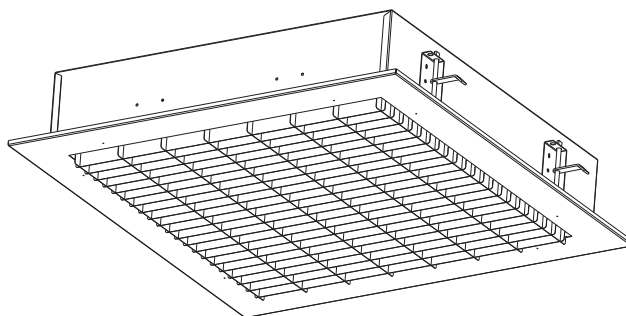
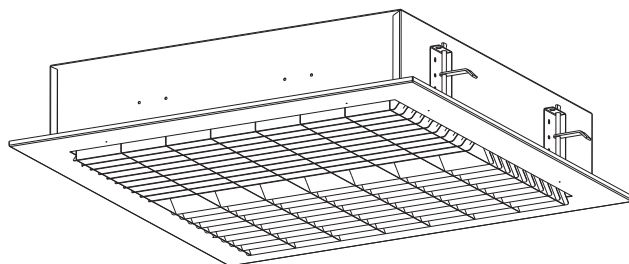
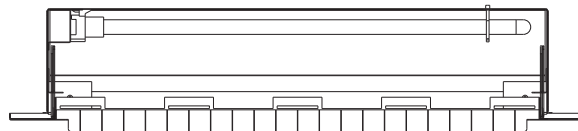
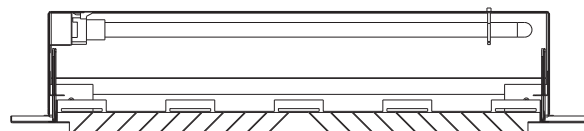
Weight: 30 lb (13.6 kg)

Louver Configurations



Forward-Throw Louver
FW Option

Corner-Throw Louver
CA Option



Bidirectional-Throw Louver
BI Option

Downward-Throw Louver
DN Option

ST	2		
	Lamps	Ballast Type	Voltage
Stealth-T	Two Lamps	E = EcoSystem	1 = 120V
		L = Hi-Lume	2 = 230V
		N = Non-Dim	7 = 277V
		P = Phase	
		X = Digital	

—

	Flange Size (inches)		Louver Type
	24 = 24 x 24-in Flange	FW = Forward Throw Louver	
		CA = Corner Throw Louver	
		BI = Bidirectional Throw Louver	
		DN = Downward Throw Louver	

—

	Ceiling Type
	IG = 24 in Lay-In Grid
	MG = 600 mm Lay-In Grid
	DW = Drywall

Note: EcoSystem Ballasts have a THD of 20%.

Note: Hi-Lume and Phase-Dim ballasts are not available in 230V.

Note: Custom Finish is available. Add a "-CF" to the end of the part number.

US and foreign patents pending

Control Screens and Lenses

	Description	Thickness	One-Lamp	Two-Lamp
☐	Broad-Field Screen	0.25 in	FIX-T01/CS-BF	FIX-T02/CS-BF
☐	Medium-Field Screen	0.50 in	FIX-T01/CS-MF	FIX-T02/CS-MF
☐	Narrow-Field Screen	0.75 in	FIX-T01/CS-NF	FIX-T02/CS-NF
☐	Prismatic Lens	0.125 in	FIX-T01/LENS	FIX-T02/LENS
☐	Glare-Reduction Filter	0.060 in	FIX-T01/GR-FILTER	FIX-T02/GR-FILTER

Note: White-finish screen with off-white frame standard; custom-finish screen optional (add -CF suffix to Part Number)



Two-lamp fixture screens



Fixture screens with Glare-Reduction Filter



One-lamp fixture screens

Lamp Options and Specifications

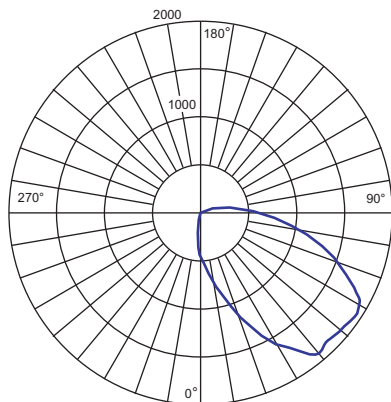
	Color Temperature	CRI	Lumens	Life	Part No.
☐	3000° Kelvin	82	4800	10,000 Hrs	009-55W30K82
☐	3000° Kelvin	96	3000	10,000 Hrs	009-55W30K96
☐	3500° Kelvin	82	4800	10,000 Hrs	009-55W35K82
☐	4100° Kelvin	82	4800	10,000 Hrs	009-55W41K82
☐	3200° Kelvin Studioline	85	3800	8,000 Hrs	009-55W32KSP
☐	5600° Kelvin Studioline	85	3800	8,000 Hrs	009-55W56KSP
☐	3200° Kelvin High Rendering	95	2800	2,000 Hrs	009-55W32KHR
☐	5600° Kelvin High Rendering	95	2800	2,000 Hrs	009-55W56KHR

Note: High-rendering lamps are excellent for HD applications.

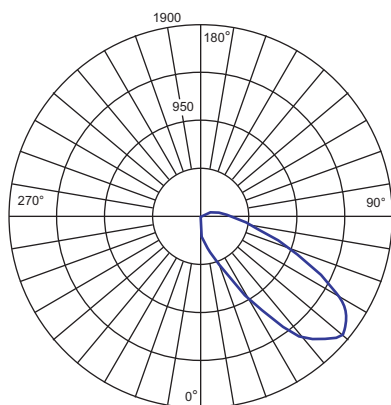
Two-Lamp T-Series Fixture Performance

Testing Notes:

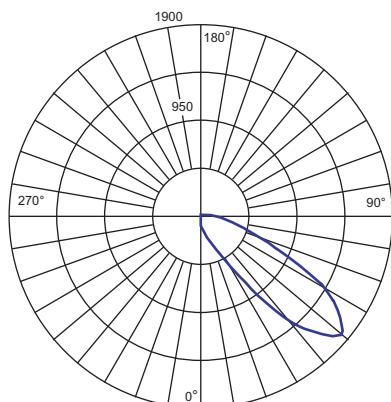
- Tests conducted with fixture at 50° above vertical (nadir), representing the optimal video lighting angle.
- Lamps used were 55W, 3200K Osram Studioline, at 3800 lumens. Ambient temperature maintained at 25°C ± 1°C.
- Tests represent the performance of the same fixture with varying control screens and lenses.



Two-Lamp Fixture with White-Finish Broad-Field Control Screen
Maximum Output: 1940 cd
Test LTL07914



Two-Lamp Fixture with White-Finish Medium-Field Control Screen
Maximum Output: 1833 cd
Test LTL07954

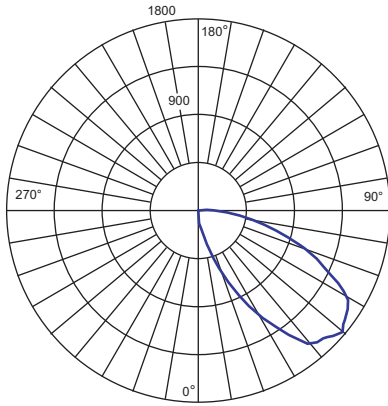


Two-Lamp Fixture with White-Finish Narrow-Field Control Screen
Maximum Output: 1827 cd
Test LTL07955

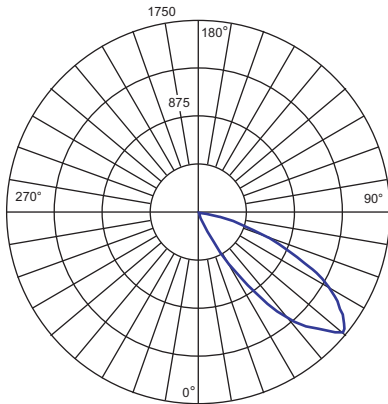
These results are intended to be used by an illumination engineer to calculate fixture choice and location. The IES files and reports from which these plots were derived can be found on the Brightline Web site. Extrapolation of these data for other lamp types may produce differing results. The tests were carried out in a controlled laboratory environment; field performance may differ.

US Patent No. 6,517,216. Other US and foreign patents pending.
T-Series fixtures are UL, cUL, CE, and C-Tick listed.

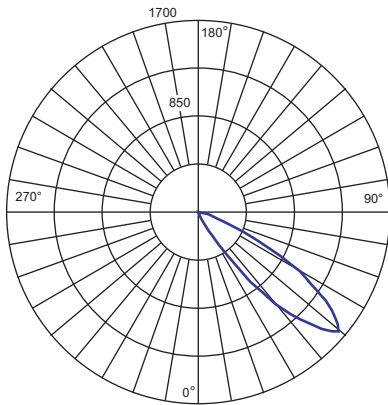
Two-Lamp T-Series Fixture Performance



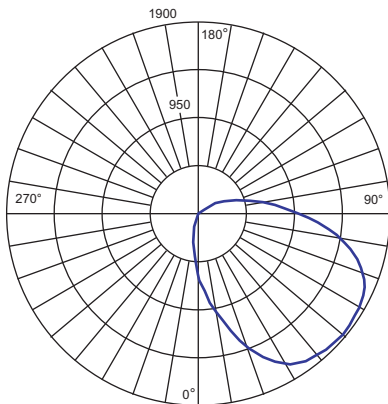
Two-Lamp Fixture with Black-Finish Broad Field=Control Screen
Maximum Output 1761 cd
Test LTL07956



Two-Lamp Fixture with Black-Finish Medium-Field Control Screen
Maximum Output: 1720 cd
Test LTL07957



Two-Lamp Fixture with Black-Finish Narrow Field-Control Screen
Maximum Output: 1639 cd
Test LTL07958



Two-Lamp Fixture with Acrylic Prismatic Lens
Maximum Output: 1857 cd
Test LTL07959

US Patent No. 6,517,216. Other US and foreign patents pending.
T-Series fixtures are UL, cUL, CE, and C-Tick listed.



The DALI BusMaster is an integral DALI Power Supply and Programming Interface. It provides the DC voltage for the DALI bus; and it allows for control of DALI Ballasts through an RS-232 Serial Computer Interface.

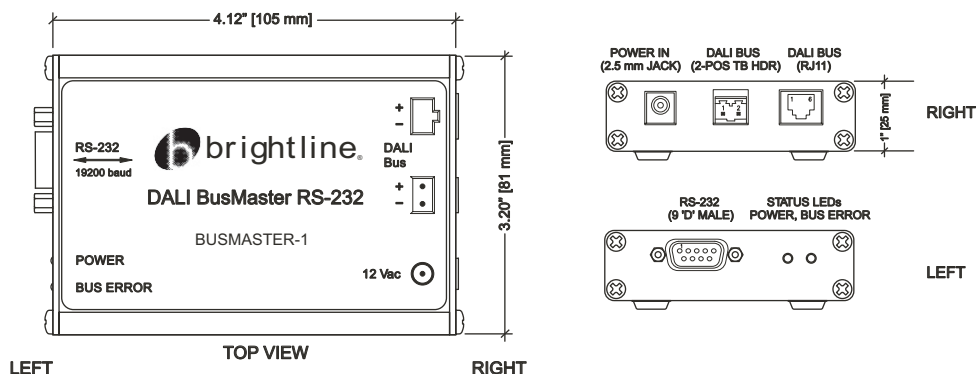
DALI (Digital Addressable Lighting Interface) is an International standard for controlling fluorescent ballasts and other devices. DALI ballasts are assigned an Address by which they receive control commands. Up to 64 ballasts may be controlled on a DALI signal bus. The ballast only responds to commands addressed to it; therefore, the wiring topology is simple: a pair of wires transmit the signals to the fixtures. The DALI control wiring may be daisy-chained from fixture to fixture; they may be wired in a star-fashion, all going back to a single wiring point; or any combination of the two. DALI ballasts are also capable of sending digital codes as well. It is possible to send a query to the ballasts on a signal bus to determine if any lamps have failed, or if there are any other problems with the system.

The BusMaster has an internal current-limited DC power supply that powers the data bus. The unit is capable of outputting 150 ma of DC power. The included external power supply is intended for 120V 60 Hz usage.

The RS-232 interface allows fixtures on the DALI data bus to be controlled by a Windows Personal Computer running WinDIM software. WinDIM can control the system, and can serve as a configuration tool. In addition, any device that has controllable RS-232 ports, such as an Audio-Visual Processor, can also control the system. The BusMaster is configured as a DTE device; therefore a null-modem cable (supplied) is required. It operates at 19.2 kb/sec.

The BusMaster can be hooked to the DALI bus either by its (removable) two-pin connector; or by the RJ-11 receptacle.

The BusMaster Kit consists of the BusMaster, a 120V or 230V power supply and a null-modem cable. The Kit also includes a CD with WinDIM software.



US Patent No. 6,517,216. Other US and foreign patents pending.
T-Series fixtures are UL, cUL, CE, and C-Tick listed.

Win-Dim Software

WinDIM Software is intended to be used with the DALI BusMaster or the DALI Serial Programming Interface. It helps the Installer configure a DALI System, and, after configuration, provides for a user interface to control DALI Fixtures, Groups, and Scenes.

If the DALI Lighting System is purchased without Control Stations or other methods of setting the lighting looks, WinDIM can operate on a Windows PC. WinDIM runs in the background, and adds an icon to the System Tray. The user can make changes to a Group or to a Scene online. After the changes have been made, the program will go back to operating in the background.

Configuration

The first step in configuring a DALI system is to make sure that all of the ballasts are addressed properly. brightline fixtures are typically shipped with their addresses set by the factory, so you may not need to do this procedure. You can tell that the fixtures have been addressed by the presence of a label on the fixture body indicating the address number. As you install the fixtures, make a note of the addresses.

In complex installations, you may want to add the fixtures to Groups. A Group consists of one or more fixtures that will always have the same lighting level. Using Groups can simplify the setup procedure. WinDIM provides a graphic tool to assign the fixtures to groups. A DALI System can have up to 16 Groups; WinDIM allows you to assign names to your groups if you wish.

A Scene in DALI is a lighting "look" that can be chosen by the user for a specific purpose. Once a Scene is selected, the dimming levels of the fixtures assigned to that Scene are recalled and set. As with the Groups, WinDIM provides a tool to set up and record Scenes. Up to 16 Scenes can be set.

Operation

As mentioned above, WinDIM can be used as the primary controller for a DALI system. The screen to the right shows what you will see on your computer monitor. The buttons labeled G1 through G16 allow for control of the Groups. When a Group button is selected its color will change from gray to green, indicating that it is active.

Using the pull-down box labeled "Go to Scene," make a selection. The lights will go to the levels set for that Scene. Selecting other Scenes will make the lights go to the new levels. The use of the four arrow buttons in the center allows you to temporarily override the levels in the Scene. The On/Off button allows you to toggle the lights On or Off.

If you don't want a Group to be involved in changes you are making, deselect that Group number. For example, if Group 2 is not selected, its fixtures will not react to the Go to Scene command.

The Properties button opens a series of Tab Pages that are used in the Configuration process as described above.

Clicking anywhere on your monitor outside of the WinDIM box "hides" this display, and returns to normal Windows operation.

System Status

You can query all of the fixtures on a DALI bus for any operational errors. WinDIM will indicate any error conditions that exist. For example, if a lamp is faulty, it will be reported back.

Light Over Time

One of the useful functions of WinDIM is the Light Over Time mode. It allows for up to five groups of lights to dynamically change intensities over time. The levels are set on a graph, with variable time values. Once LOT is activated, the output intensities of the Groups follow the values set on the graph. This function is particularly valuable when used with Red, Green, Blue or Red, Green, Blue, White color-changing fluorescent fixtures.



US Patent No. 6,517,216. Other US and foreign patents pending.
T-Series fixtures are UL, cUL, CE, and C-Tick listed.

Overview

The brightline Motor Control System is designed to provide motorized lighting fixture movement to T-Series lighting fixtures. The System memorizes the positional information for a series of fixtures, and recalls those positions when requested. This information is stored as Movement Cues that can be implemented via a digital signal received from an external processor or by a push-button control station.

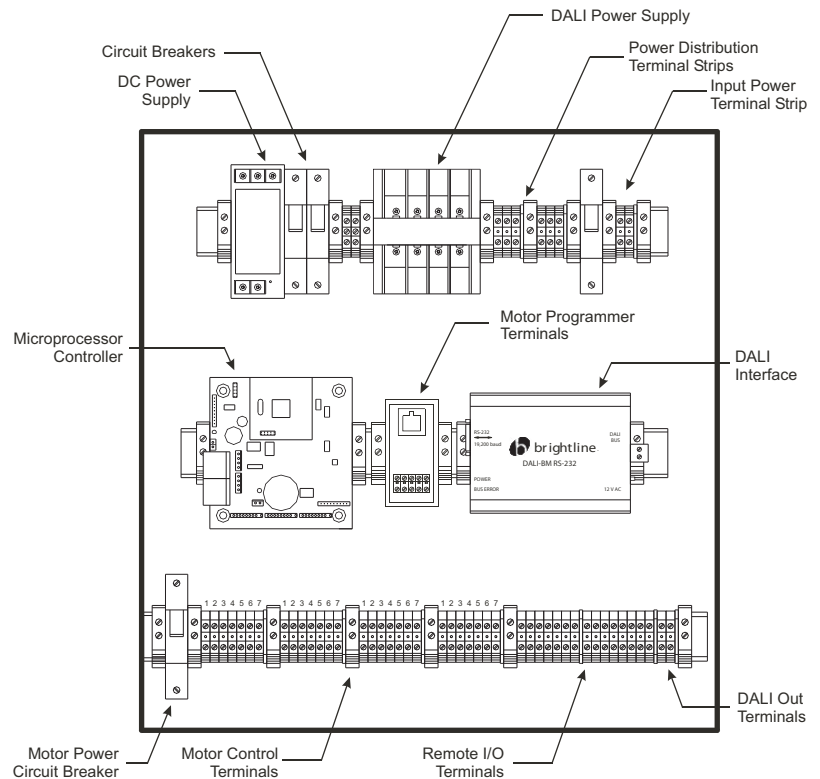
System Description

The Motor System is controlled by an industrial microcontroller unit that is capable of operating up to seven (7) lighting fixtures. An optional Expansion Card can be added to increase the number of fixtures to twenty-three (23). The System can receive commands digitally or via dry-contact closures from the control station. The Controller is fully wired for the number of lighting fixtures indicated making it easy to add fixtures at a future date.

A low-voltage digitally controlled stepper motor moves the fixture carriages. The digital signals are sent to the fixtures via a five-wire control cable, normally provided by brightline. The fixture has a locking receptacle (five-pin male XLR) for the control cable connection.

The System is capable of being digitally activated by an external controller via RS-232 serial protocol. The Motor Controller can receive commands and will respond to them.

An external Motor Programmer is provided with the Motor System. This unit is connected to the Motor Controller via a CAT-5 Control



Layout of Seven-Axis Controller Enclosure

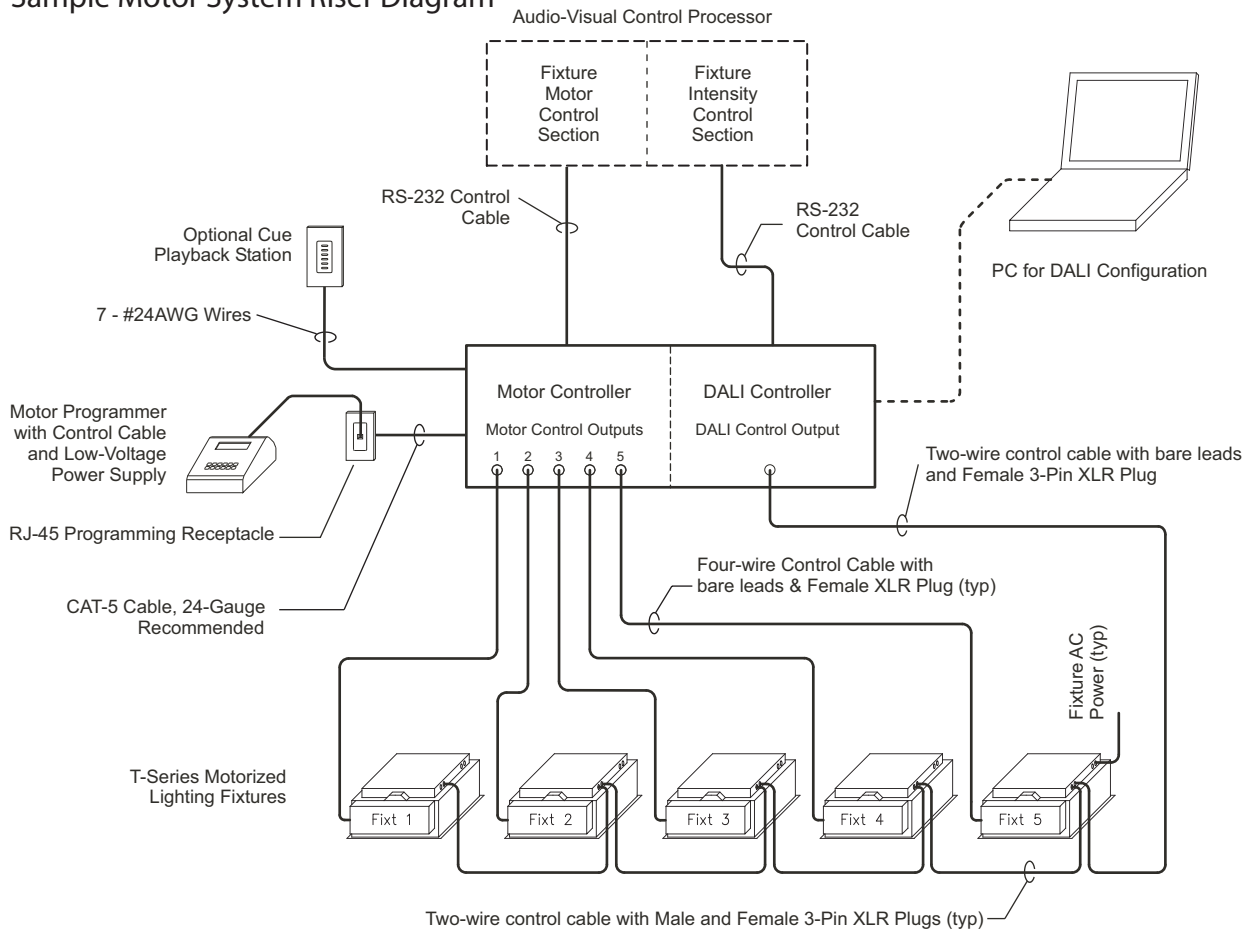
Cable and RJ-45 Receptacle. The total run of Control Cable should not exceed 150 feet [45m]. The Programmer is used to set the locations of the fixture carriages, which are then recorded into Cues for later playback. The Programmer can also be used to activate previously recorded Cues, and to change system parameters.

Often, the Motor Control Enclosure also houses an RS232/DALI interface, as shown above. The interface is used for intensity control of the fixtures; it too can be activated by RS-232 digital signals. Its output is two-wire; the fixtures have a locking connector for this signal as well (3-pin XLR).

The Motor Controller needs to be connected to a source of either 120VAC or 220-240VAC Power. Power consumption at 120 Volts is under 5 Amps.

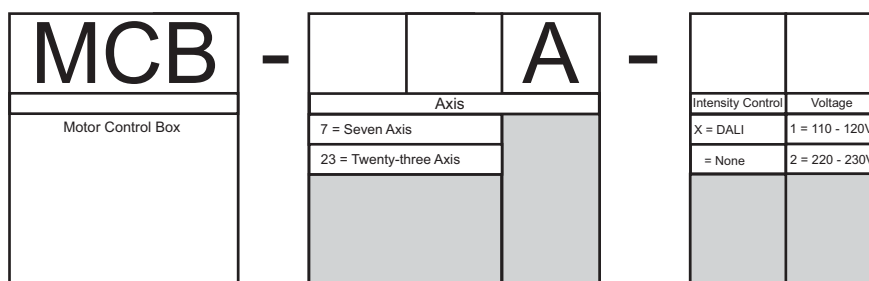
Sample Motor System Riser Diagram

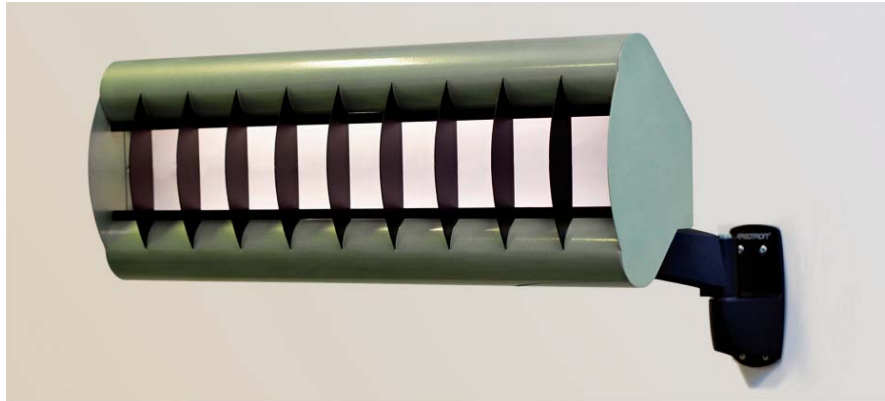
Motor Control System



Notes:

- This Riser Diagram is for a system with five (5) Motors and DALI Intensity Control; it shows the Motor Programmer and a Six-Button Playback Station.
- Each fixture has its own Motor Control Cable that is home-run back to the Control Enclosure. The DALI wiring is normally daisy-chained as shown.
- Keep all Control Cable runs as short as possible.
- The Motor System can operate as a stand-alone device, using the Playback Station or the Motor Programmer.





Brightline's R-View fixture was developed to provide energy-efficient, broadcast-quality advanced fluorescent lighting in a format designed for wall-, stand-, or cart-mounted applications. Uses include business and governmental videoconferencing, distance learning, telemedicine, Internet video streaming, newsrooms, and nontraditional studios.

Construction

20-gauge formed aluminum sheet-metal construction. 24-gauge formed specular primary and white secondary reflectors. Fixture body incorporates ANSI-standard 75-mm VESA mounting holes (mounting brackets not included). Black powder-coat finish is standard, with custom colors available by request.

Electrical

6-ft (1.8-m) attached power cord with a NEMA 5-15P plug is standard for 120V fixtures. The 2 lamps use 2G11 4-pin sockets. Ballasts are available for 120V, 230V, or 277V 50-60 Hz operation. Ballasts are high-frequency electronic with a power factor $\geq 97\%$, a Class A sound rating, and a THD $< 10\%$.

Mounting

Fixtures are supplied with four mounting holes that can be used with a pivot bracket or a TVMP adapter. The optional pivot bracket allows for 15 degrees of tilt and 180 degrees of pan.

Dimensions and Weight

The fixture has dimensions of 22.82 in [579.63 mm] wide x 8.51 in [216.15 mm] high x 5.63 in [143.00 mm] deep, exclusive of connectors. The weight of the R-View fixture is approximately 8 lb [3.63 kg].

Dimming Ballasts

Dimmable fixtures can be locally controlled by a bottom-mounted rotary potentiometer (120V and 230V only). Other dimming options available by request.

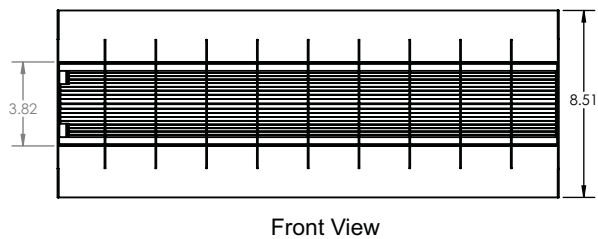
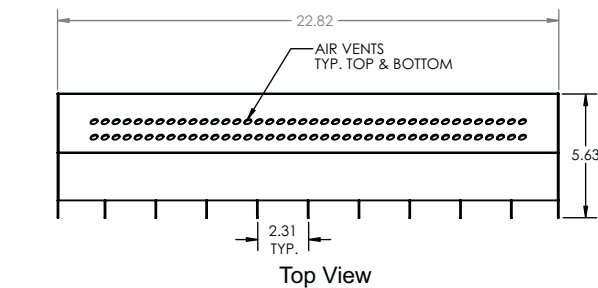
Accessories

The fixture is provided with a louver assembly and frosted diffusion filter. A safety cable and C-clamp are available.

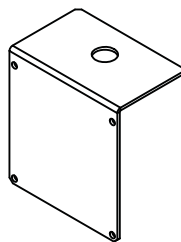
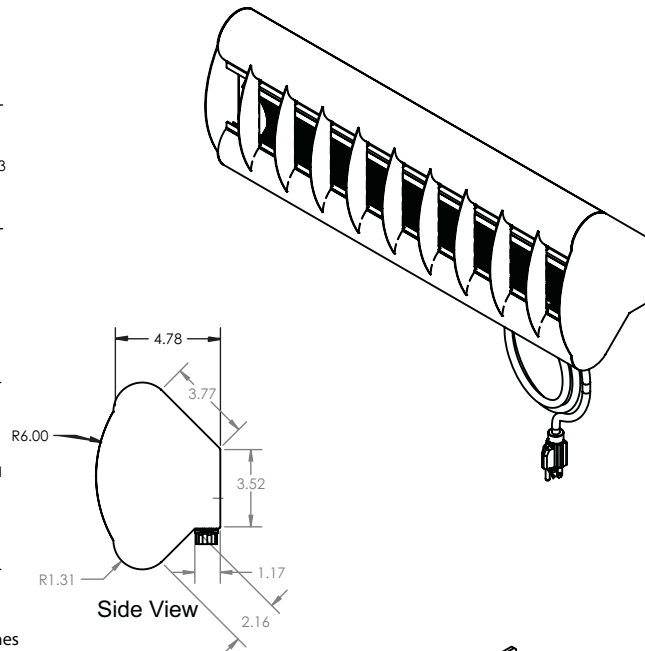
Specifications subject to change without notice.



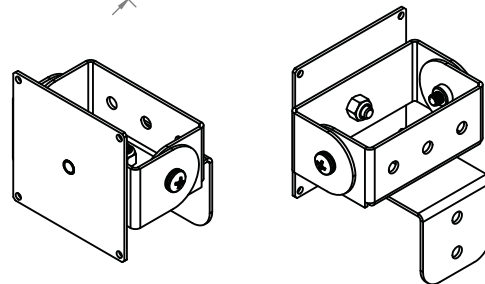
Standard black powder-coat finish and four optional colors shown



* dimensions in inches



Spud-Mount Bracket
Part Number: RV SPUD MOUNT



Wall-Mount Bracket
Part Number: RV WALL MOUNT

RV					
R-View					
		Control	Voltage	Finish	
		R = Rotary Dim	1 = 120V	BL = Black Finish	
			2 = 230V	CF = Custom Finish	
		* Other dimming options available by request *			

Shipping Information	
Length: 25 in (635 mm)	
Width: 12 in (305 mm)	
Height: 13 in (331 mm)	
Weight: 22 lb (10 kg)	



The i-Series, a sleek, energy-efficient LED fixture, is scalable to virtually any monitor. Cool-to-the-touch, the i-Series fixtures make it easy to look your best on camera, allowing individuals to conference remotely without sacrificing critical visual details.

The many non-verbal nuances of facial expression and eye contact are critical to effective communications. The i-Series enhances visual clarity, thereby increasing the readable content within a video image and raising the engagement level of participants in the conference.

Specifications

Construction

.078" thick aluminum extruded housing. Aluminum cast end caps. .09" aluminum reflector powder coated gloss white. A smooth gloss black powder coated finish is standard, with custom colors available by request.

Electrical

6-ft (1.8-m) power cord with built-in low voltage transformer connects to fixture housing using single pin connector. Plug is a NEMA 5-15P and is standard for 120V fixtures. Two level toggle switching is standard on 120V fixtures. In-line rotary dimming transformer also available. 12V high power LED strips mounted on reflector.

Individual Fixture Wattage

i-S/16: 15W i-S/22: 20W i-S/36: 35W i-S/48: 45W i-S/48/D: 90W

Mounting

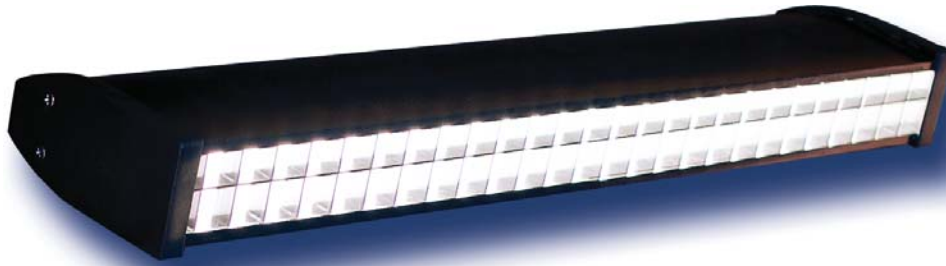
Fixtures are supplied with a mounting adapter that works with many mounting options, including 75mm -200mm VESA with flex arm. (Cart or Stand mounts available. Please specify on order. Mounting bracket sold separately.)

Louver and Lens

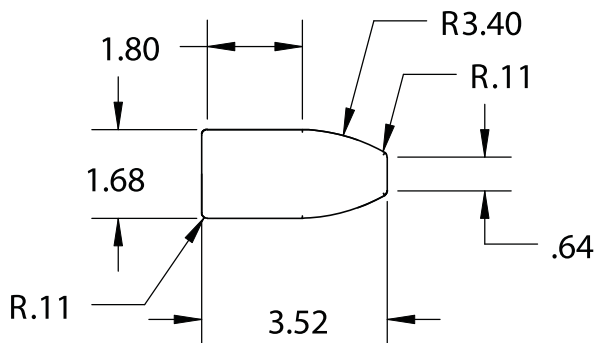
Fixtures are provided with 1/2" x 1/2" black egg crate louver and LED film.

Dimensions

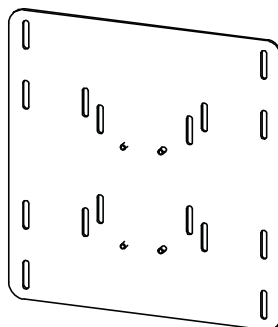
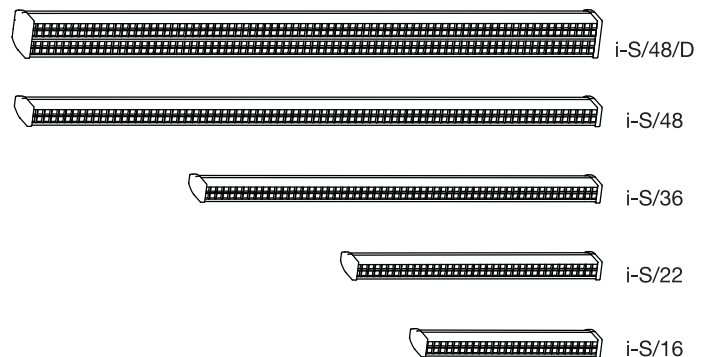
The fixture has dimensions of 1.71" [43.43mm] single or 3.21" [81.53mm] double-high x 3.5" [88.9mm] deep x 16.16" [410.43mm], 22.41" [569.21mm], 36.16" [918.46mm] or 48.03" [1219.96mm] long.



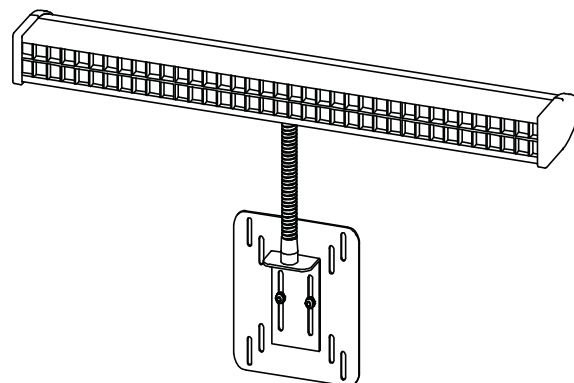
Smooth gloss black powder coated finish is standard. Custom colors are available by request.



Dimensions in inches



VESA 100-200



VESA 75-100

Please reference these part numbers when ordering:

i-S/16	16-inch i-Series Monitor Light
i-S/22	22-inch i-Series Monitor Light
i-S/36	36-inch i-Series Monitor Light
i-S/48	48-inch i-Series Monitor Light
i-S/48/D	48-inch Double i-Series Monitor Light



12-Lamp CycSeries
Fixture Shown: SC4.12X-H



6-Lamp CycSeries
Fixture Shown: SC4.6X-H



4-Foot 3-Lamp SeriesTWO
Fixture Shown: MCI433-DD-1



4-Foot 4-Lamp SeriesTWO
Fixture Shown: MCI444-DD-1

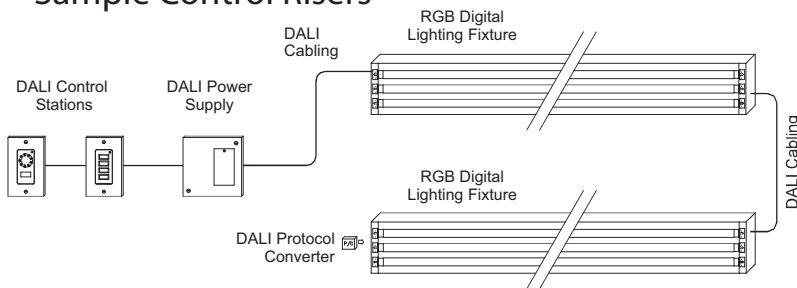
CycSeries

- The CycSeries fixture line consists of two basic units, one with six lamps and the other with twelve lamps. Both use 28W Single Phosphor T5 lamps with color sleeves. Master fixtures have DMX intensity control; the DMX Address can be set anywhere between 1 and 512.
- Remote fixtures are offered for applications where groups of fixtures all change colors together; the DMX addressing is set by a Master fixture. Remote fixtures may also be controlled by the two most common digital ballast protocols, DALI or DSI.
- The units can be dimmed to 3% intensity with no flickering, dropouts or other anomalies.
- Both vertical and horizontal yokes are offered for grid or stand mounting. The fixture comes with a C-clamp, a Safety Cable and a 12 foot [3.7 m] Power Cord. An adjustable, removable barn door is provided for beam control.
- CycSeries fixtures are available in 120VAC and 230VAC.
- The fixtures are 46.8 in. [119 cm] wide, exclusive of palm handles. The 12-Lamp fixture is 24.2 in. [61.5 cm] high with yoke; and the 6-Lamp, 17.8 in. [45.3 cm].

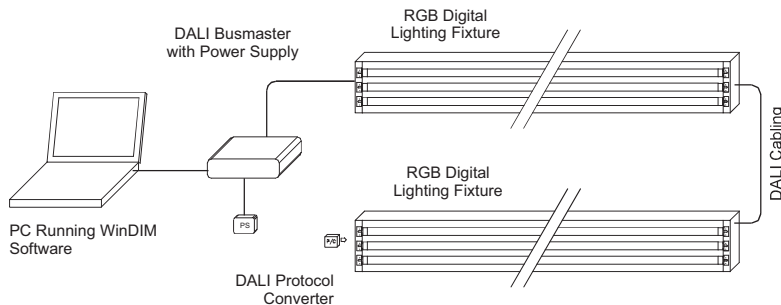
SeriesTWO

- SeriesTWO fixtures are 46.2 in. [117.3 cm] in length. Fixtures can use three or four lamps. They use 28W single phosphor T5 lamps with color sleeves. They may be controlled by DMX; or by the two most common digital ballast control protocols, DALI or DSI. The DMX address can be set anywhere between 1 and 512.
- Remote fixtures are offered for applications where multiple units all change colors together; the DMX addressing is set by a Master fixture, or externally.
- The connectors are designed so the fixtures can be tandem wired with no space between them. They can be dimmed to 1% intensity with no flickering, dropouts, or other anomalies.
- A prismatic lens is offered to ensure even beam spread at short distances.
- SeriesTWO fixtures are available in 120VAC and 230VAC versions.
- The fixtures are 6 in. [15.2 cm] wide, exclusive of mounting brackets; and are 3.3 in. [8.5 cm] high. With the lens attached, the dimensions are 6.1 in. [15.5 cm] wide by 3.9 in. [9.9 cm] high.

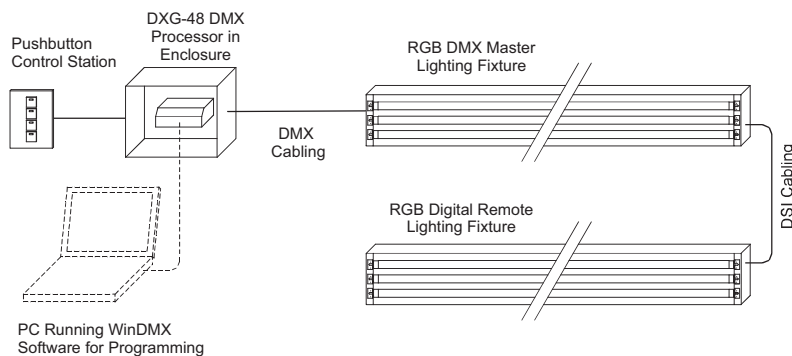
Sample Control Risers



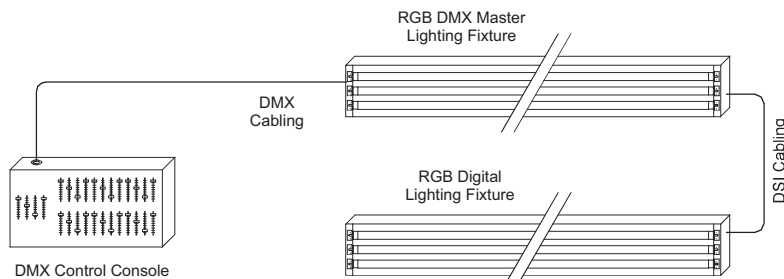
DALI Control Stations controlling DALI fixtures. Up to 64 ballasts may be on a DALI system. DALI Protocol Converter used on last fixture in the Run.



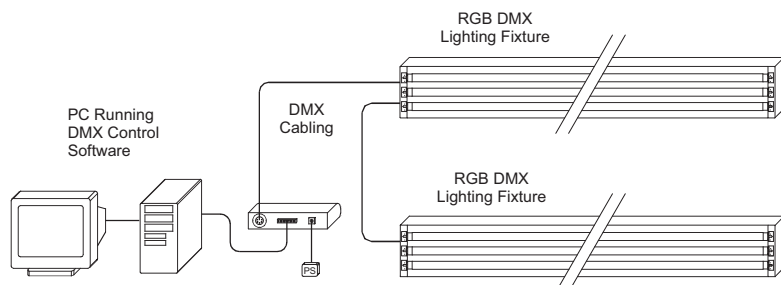
DALI BusMaster controlling DALI fixtures. WinDIM software in Light Over Time mode used for color sequencing. DALI Protocol Converter used on last fixture in the Run.



DXG-48 DMX Processor controlling a DMX Master Fixture and a DSI Remote Fixture. Preset cues activated by push button station. Computer required for programming only.



DMX Console controlling a DMX Master fixture, that in turn controls a DSI Remote fixture. The Remote fixture will have the same levels as the Master fixture.



A Personal Computer, running Lighting Control software that produces DMX. Both fixtures are DMX Masters, and operate independently.



Specifications

Housing:

20-gauge (.0359) CRS formed, sheet metal construction. Finished in low glare, polyester mineral bronze powder coat.

Reflector:

24-gauge (.020) formed aluminum substrate with a silver-based polyester film laminate. 95% specular reflectance.

Barn Door:

Hinged to the bottom front of the fixture face. Pivots down to 90°. Swings up to protect fixture face when unit is not in use.

Ballasts:

(6) Digital high-frequency electronic ballast for 28W to 54W (High Output option). 120 or 230VAC, 50/60Hz, power factor $\Rightarrow$.97, class "A" sound rating, THD<10%. The ballasts allow dimming down to 3% without flashing or flickering. DMX Master Unit required for DMX to Digital protocol conversion.

Lamps:

(12) 28W or 54W (HO option), available in red, green, and blue. Red, green, and blue colored sleeves are provided with 28W lamps for more saturated colors.

Lamp Sockets:

G5, 2-pin twist-and-lock molded white high-strength thermoplastic.

Power Entry Module:

IEC-320 connector with integral 8-amp fuse and holder for spare fuse.

DMX Master Unit:

DMX in and out receptacles and digital ballast output receptacle. The DMX start address can be set anywhere between 1 and 512; the fixture uses three consecutive DMX addresses. The DMX output is self-terminating; no termination switch is required. Unit is capable of driving up to 9 remote units.

Remote Unit:

Digital ballast input and output receptacles. Unit must be driven by a DMX master unit. Remote units are daisy-chained together.

Mounting Bracket:

10-gauge extruded aluminum yoke for horizontal or vertical mounting. Horizontal yoke standard; add "-V" to part number for vertical yoke.

Power Cord:

12' (3.66 m) length 18/3 gauge SOW cable 10amp/250V. Female IEC connector to male grounded 3-pin Edison plug (NEMA 5-15P). Black color. Optional connectors available upon request.

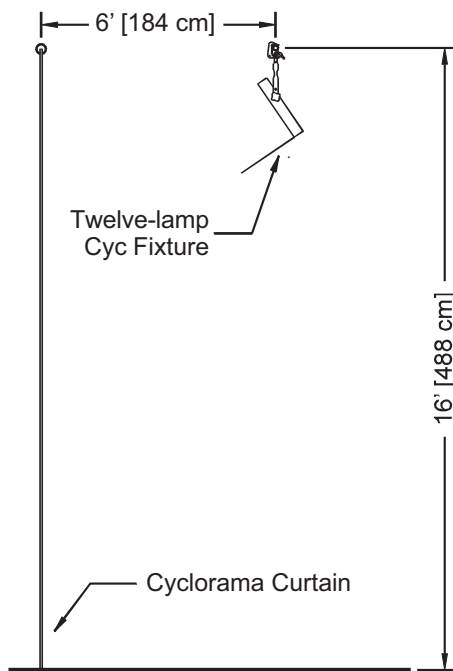
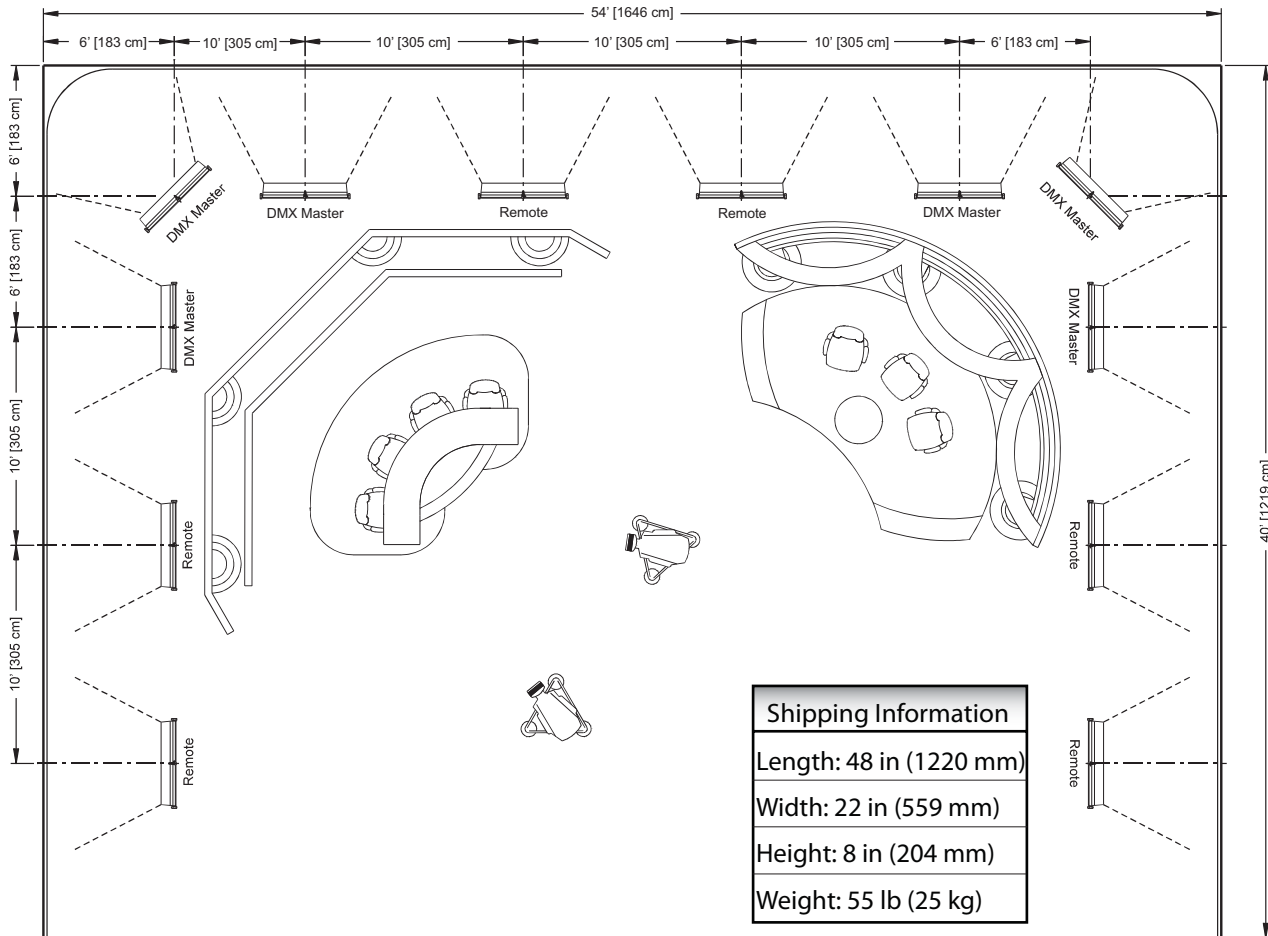
Listing:

StudioCyc fixtures are UL, CE, and cUL listed.

Includes:

Fixture comes standard with four each red, green, and blue 28W or 54W lamps, color sleeves with 28W lamps; horizontal or vertical yoke; a power cord, and C-clamp with safety cable.

TV Studio Layout using Twelve-Lamp Studio CycSeries Fixtures



Partial Section

Plan View

Notes:

These drawings show a suggested layout for using twelve-lamp Studio CycSeries fixtures in a small broadcast studio. Note the fixture-to-fixture and the fixture-to-cyclorama distances. The twelve-lamp version of the Studio CycSeries family of fixtures is most suitable for studios where the illuminated section of the cyclorama does not exceed 16' [488cm] in height. Note the placement of DMX Master and Remote units.

SC	Lamp Quantity	Control	Yoke	Voltage
StudioCyc	4.12 = Twelve Lamp	X = Master	H = Horizontal Yoke	1 = 120V
	4.6 = Six Lamp	R = Remote	V = Vertical Yoke	2 = 230V

Note: Bronze fixture finish is standard; custom-finish available (add -CF suffix to Part Number)
Note: For 12-lamp fixtures, 9 remote fixtures can be controlled by 1 master fixture



Specifications

Housing:

20-gauge (.0359) CRS formed, sheet metal construction. Finished in low glare, polyester mineral bronze powder coat.

Reflector:

24-gauge (.020) formed aluminum substrate with a silver-based polyester film laminate. 95% specular reflectance.

Barn Door:

Hinged to the bottom front of the fixture face. Pivots down to 90°. Swings up to protect fixture face when unit is not in use.

Ballasts:

(3) Digital high-frequency electronic ballast for 28W to 54W (High Output option). 120 or 230VAC, 50/60Hz, power factor $\geq .97$, class "A" sound rating, THD < 10%. The ballasts allow dimming down to 3% without flashing or flickering. DMX Master Unit required for DMX to Digital protocol conversion.

Lamps:

(6) 28W or 54W (HO option), available in red, green, and blue. Red, green, and blue colored sleeves are provided with 28W lamps for more saturated colors.

Lamp Sockets:

G5, 2-pin twist-and-lock molded white high-strength thermoplastic.

Power Entry Module:

IEC-320 connector with integral 8-amp fuse and holder for spare fuse.

DMX Master Unit:

DMX in and out receptacles and digital ballast output receptacle. The DMX start address can be set anywhere between 1 and 512; the fixture uses three consecutive DMX addresses. The DMX output is self-terminating; no termination switch is required. Unit is capable of driving up to 9 remote units.

Remote Unit:

Digital ballast input and output receptacles. Unit must be driven by a DMX master unit. Remote units are daisy-chained together.

Mounting Bracket:

10-gauge extruded aluminum yoke for horizontal or vertical mounting. Horizontal yoke standard; add "-V" to part number for vertical yoke.

Power Cord:

12' (3.66 m) length 18/3 gauge SOW cable 10amp/250V. Female IEC connector to male grounded 3-pin Edison plug (NEMA 5-15P). Black color. Optional connectors available upon request.

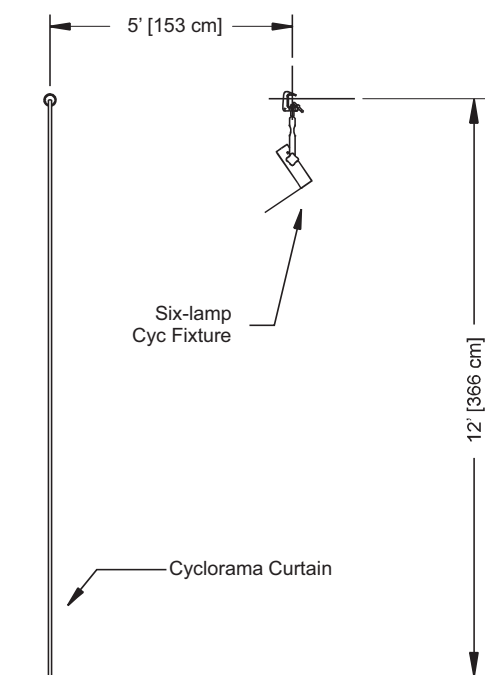
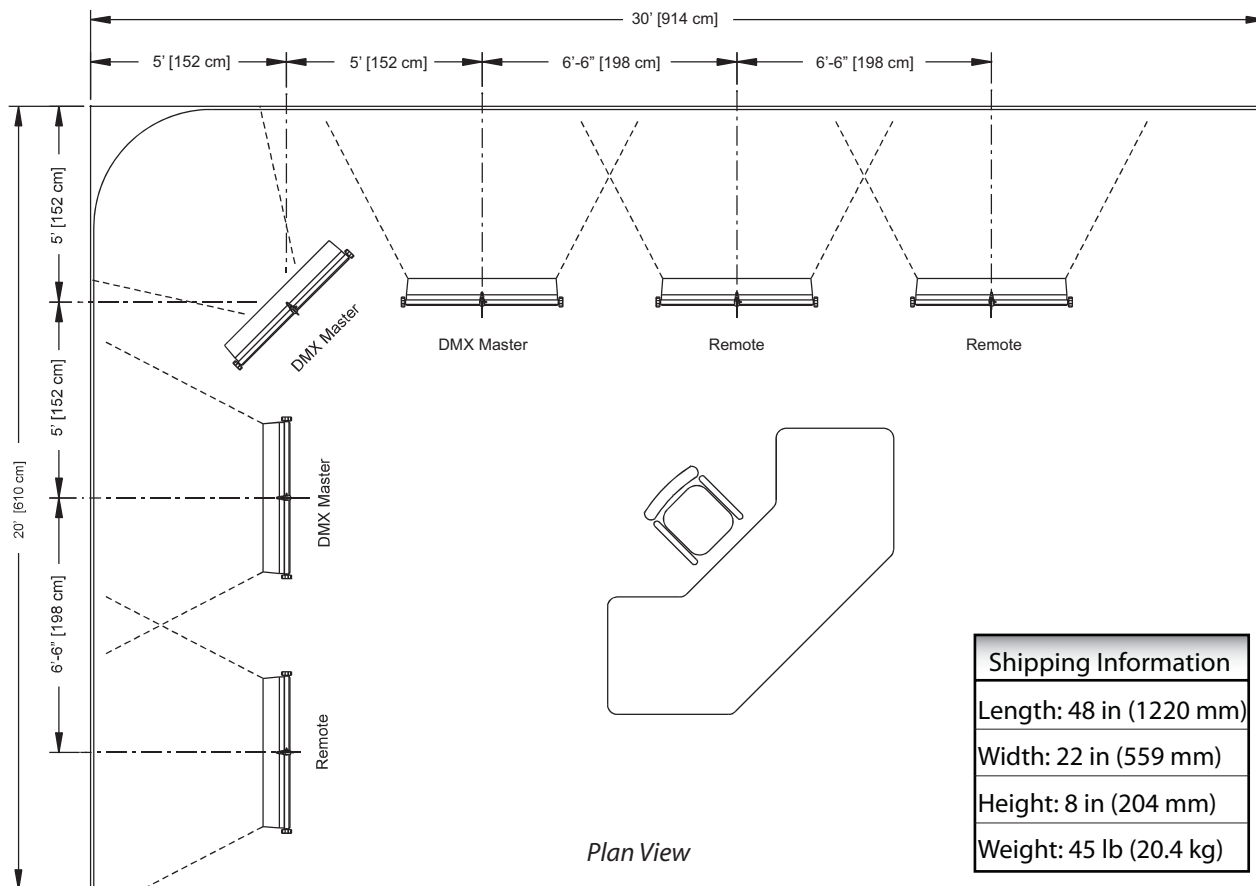
Listing:

StudioCyc fixtures are UL, CE, and cUL listed.

Includes:

Fixture comes standard with two each red, green, and blue 28W or 54W lamps, color sleeves with 28W lamps; horizontal

TV Studio Layout using Six-Lamp Studio CycSeries Fixtures



Notes:

These drawings show a suggested layout for using six-lamp Studio CycSeries fixtures in a small broadcast studio. Note the fixture-to-fixture and the fixture-to-cyclorama distances. The six-lamp version of the Studio CycSeries family of fixtures is most suitable for studios where the illuminated section of the cyclorama does not exceed 12' [366 cm] in height. Note the placement of DMX Master and Remote units

SC			
StudioCyc		Lamp Quantity	Control
		4.12 = Twelve Lamp	X = Master
		4.6 = Six Lamp	R = Remote

Yoke	Voltage
H = Horizontal Yoke	1 = 120V
V = Vertical Yoke	2 = 230V

Note: Bronze fixture finish is standard; custom-finish available (add -CF suffix to Part Number)
Note: For 6-lamp fixtures, 9 remote fixtures can be controlled by 1 master fixture



Specifications

Housing: 22-gauge cold-rolled steel; with 18-gauge endcaps. Low-gloss off-white finish (RAL9010) standard; custom colors available.

Lens: optional, removable acrylic prismatic lens. Mounting bracket for lens attaches to fixture.

Reflector: optional hammer-tone aluminum reflector available. Attaches to fixture ballast cover.

Ballast: (3) or (4) digital high-frequency electronic ballasts for (1) or (2) 28W lamps, 110-120VAC 60Hz or 230/240VAC 50 Hz. Two-Lamp ballast allows for doubling of blue lamps. Power factor $\geq .97$, Class "A" sound rating, THD $< 10\%$. The ballasts allow dimming down to 3% intensity without flashing or flickering.

Lamps: (3) or (4) digital high-frequency electronic ballasts for (1) or (2) 28W lamps; the HO version provides for 54 watt lamps. Red, green, and blue colored sleeves used with 28W lamps provide more saturated colors. White lamps in several color temperatures are also available.

DMX Unit: ("XX" option, see part numbering info on Page 2) DMX controllable. Has DMX and power In and Out receptacles. Use in situations where each fixture in a Run requires separate DMX control.

DMX Master Unit: ("XD" option) DMX controllable. Has DMX and Power In; and DSI and Power Out receptacles. DMX Thru receptacle also provided. Used to provide control input for up to (9) Remote units.

Remote Unit: ("DD" option) DSI/DALI controllable, either by a DMX Master or by an external source of DSI/DALI control. DSI/DALI and Power In; and DSI/DALI Power Out. DALI Protocol Converter required on last fixture in Run for DALI operation. Only this fixture available in 277V AC.

In line Unit: ("I" option) Configured in line operation. Receptacles for Control and Power In and Out.

Start of Run Unit: ("S" option) This fixture is provided with knock-outs for the power input connection in lieu of the modular connector.

Power Bussing: internal power bus is limited to 8 Amperes. Fixture type and voltage will determine how many units may be connected together. Contact the Factory for assistance.

Mounting Options: right-angle brackets provided with each fixture. Brackets are on 32" [81.3 cm] centers or optionally, 24" [60.9cm] centers. Brackets installed by brightline. Additionally, holes in fixture housing allow for mounting on 42" [106.7 cm] centers.

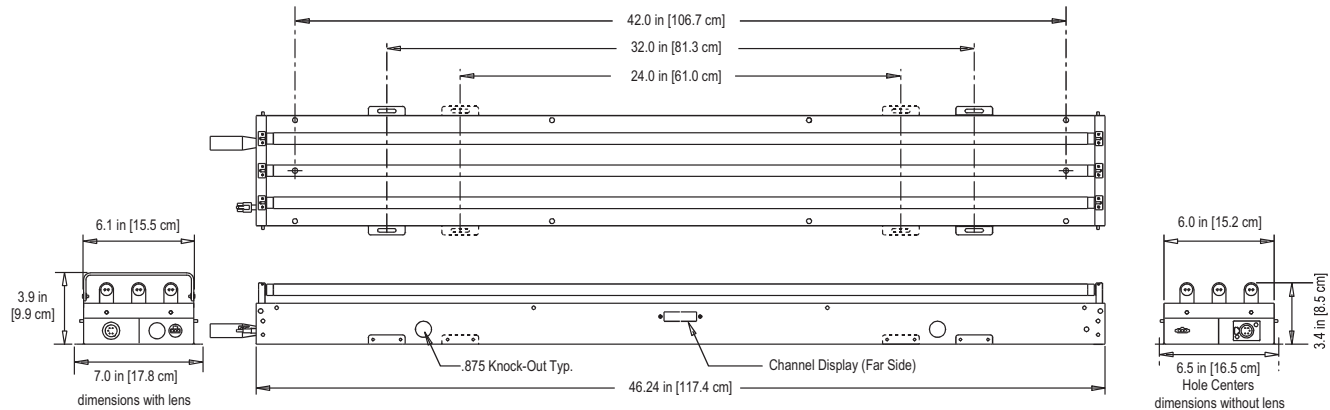
Splice Plates: two splice plates are provided with each fixture to physically attach them together, to increase the mechanical rigidity of the fixture run.

Power and Control Wiring: modular input/ and or output connectors are provided for the DSI/DALI signal and the power source. The fixtures are configured to install end-to-end without a gap between them; connectors on one end will retract into fixture body. An optional metal endcap is available for protecting the output receptacles of the last fixture on a run.

Lamp Sockets: G5, 2-pin twist and lock molded white high-strength thermoplastic.

Listing: UL, CE, and cUL listed.

Included: fixtures come with (3) or (4) 28 or 54W (HO option) lamps, color sleeves for 28W lamps, and a pair of splice plates.



Accessories and Spares

○ MC4-EC	Endcap; used for terminating fixture run
○ MC-CP	DSI to DALI Conversion Plug
○ MC4-LK	Prismatic Lens Kit; includes mounting brackets (not available for HO version)
○ MC4-HR	Hammertone Reflector
○ 009-T528025	28W Red Lamp (spare)
○ 009-T528121	28W Green Lamp (spare)
○ 009-T528079	28W Blue Lamp (spare)
○ 009-T554W025	54W Red Lamp (spare)
○ 009-T554W121	54W Green Lamp (spare)
○ 009-T554W079	54W Blue Lamp (spare)
○ 016-217	4' Red Sleeve (spare)
○ 016-218	4' Green Sleeve (spare)
○ 016-219	4' Blue Sleeve (spare)
○ 016-238	4' Amber Sleeve
○ CTX-__	DALI/DSI Control Cable (__ = length in feet)
○ MTX-__	DMX Control Cable (__ = length in feet)

Shipping Information
Length: 12 in (305 mm)
Width: 5 in (127 mm)
Height: 51 in (1296 mm)
Weight: 20 lb (9.1 kg)

MC				
	Power			
SeriesTWO Mini-Cyc	I = Inline	Length, Lamps & Channels	Control Signal	Voltage
	S = Start	433 = 4 ft, 3 Lamps, 3 Channels	In Through	1 = 120V
		443 = 4 ft, 4 Lamps, 3 Channels (2 blue)	R = DALI R = DALI	2 = 230V
		444 = 4 ft, 4 Lamps, 4 Channels	X = DMX X = DMX	

Note: Off-white fixture finish is standard; custom-finish available (add -CF suffix to Part Number)
 Note: For 3-lamp SeriesTWO fixtures, 10 fixtures can be controlled by 1 Start fixture with DMX Control.
 Note: For 4-lamp SeriesTWO fixtures, 8 fixtures can be controlled by 1 Start fixture with DMX Control.